Date:

December 14, 2006

Prepared by:

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Subject:

Thermometer product review - terminologies

Definition: Thermistor:

A temperature sensor. The name comes from thermal resistor. It comprises a mixture of certain oxides with finely divided copper, of which the resistance is very sensitive to change of temperature.

Definition: Thermocouple:

Popular temperature sensor because of its low cost, versatility and ruggedness. Consists of two different metals joined together, making a continuous circuit. When one junction has a different temperature from the other an electromotive force (voltage) occurs. There are several types of thermocouples, constructed from different metals and with differing temperature ranges and accuracies.

Platinum RTD:

Resistance thermometers, also called resistance temperature detectors (RTDs), are temperature sensors that exploit the predictable change in electrical resistance of some materials with changing temperature. As they are almost invariably made of platinum, they are often called platinum resistance thermometers (PRTs).