

Resistance Temperature Detectors (RTDs)

Resistance Temperature Detectors (RTD's). These detectors are frequently used in the plastics industries and many others. Care must be taken to eliminate moisture and vibration effects can be troublesome as well. Thermo Sensors provides the utmost in current state of the art in materials, techniques and research.

Thermo Sensors offers the Reliatemp RTD. This RTD features lifetime moisture free use as well as excellent vibration resistance.

Please refer to our order guide to assist in determining your needs. We can also provide technical design assistance and application suggestions. Give us a call.



RTD's for the Plastics Industry

The RTD's (resistance temperature detectors) listed in this section are those most commonly used in the plastics industry. They are also suitable for other applications requiring the convenience of bayonet connection or simplification of installation as with the rigid tube design.

For other designs and materials, please consult the factory.

Specifications

Sensing Element:

Platinum sensors with a tolerance of $\pm 0.12\%$ at 0°C and temperature ranges of -50 to $+400^{\circ}\text{C}$ (-58 to $+752^{\circ}\text{F}$) are catalogued. Assemblies are available in two temperature coefficients (Alpha) of $.03385 \text{ W/W}^{\circ}\text{C}$ (Din 43760) and $.003916 \Omega/\Omega/^{\circ}\text{C}$. The Din curve is the most commonly used sensor.

Lead Materials:

Leads for the 260°C (482°F) range assemblies are silver plated copper insulation with teflon.

Leads for the 400°C (752°F) range assemblies are nickel plated copper insulated with fiberglass.

Sheath Material:

$3/16"$ O.D. ($.188"$) 304 stainless steel