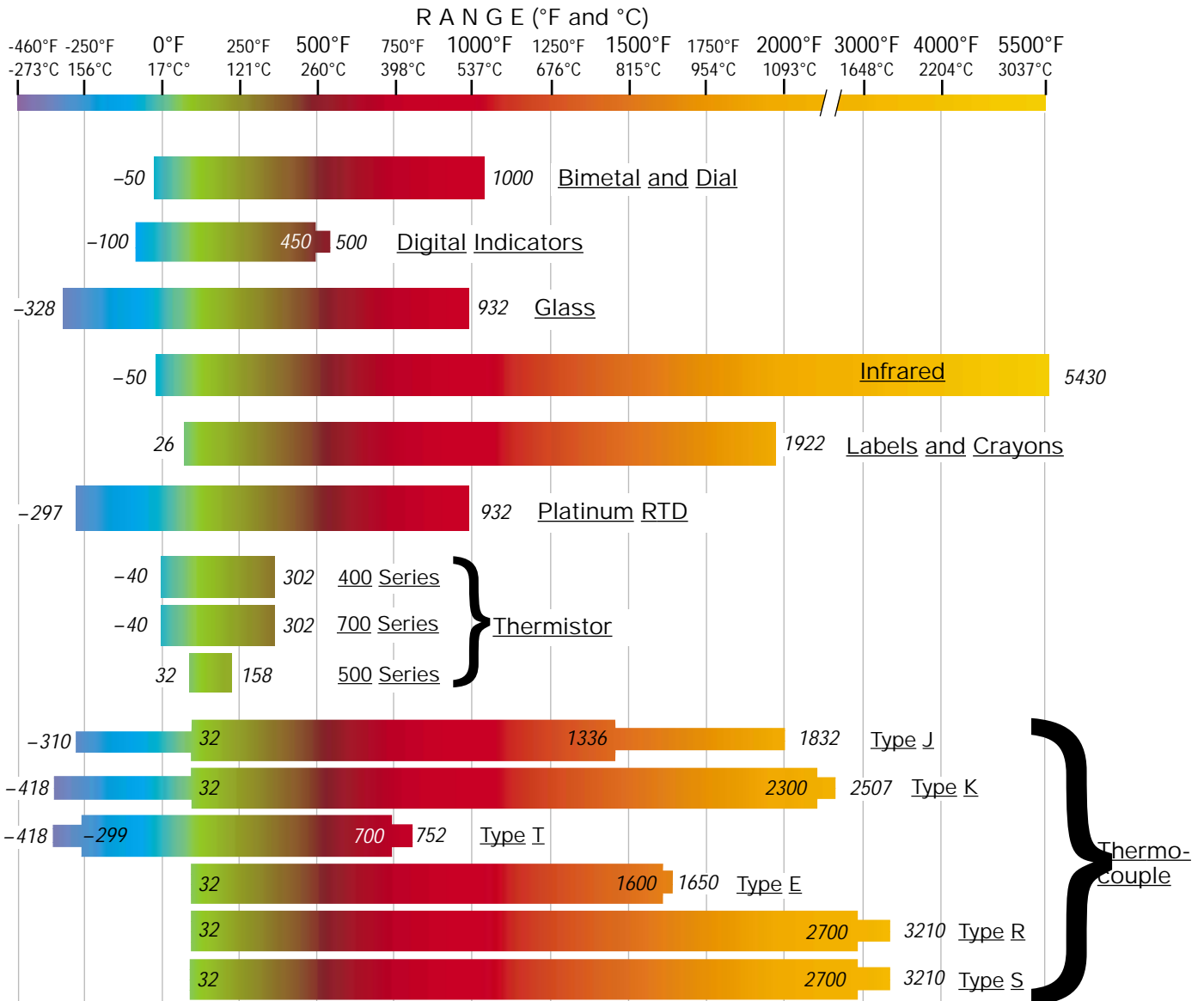


# Temperature Sensor Ranges

The stated accuracy of any temperature measurement device is for the "Recommended Temperature Range" only. The narrow section of the temperature bar represents the widest range the sensor can be used in. Accuracy in this range is not guaranteed. Probe damage may occur at the extreme ends of the temperature range. Temperatures listed below are approximate.

**Temperature Conversion Equations**

°F = (1.8 x °C) + 32    °C = (°F-32) x 0.555  
 °Kelvin = °C + 273.2    °Rankin = °F + 459.67



<p><b>Typical Accuracies</b></p> <p>Bimetal and dial: ±0.5% of full-scale              Digital indicators: ±1% of reading              Glass: ±1% of range; ±1.0°F (±0.5°C) for NIST-traceable models              Infrared: ±1 to 3% of reading              Labels and paint: ±2°F</p>	<p><b>Platinum RTD</b>              Probes: ±0.2% of reading and ±1.7°F (±0.94°C)              Meters: ±0.1% of reading and ±1°F (±1°C)</p> <p><b>Thermistor</b>              400 series probes: ±0.36°F (±0.2°C) from 32 to 167°F (0 to 75°C)              500 series probes: ±0.2°F (±0.1°C)              700 series probes: ±0.27°F (±0.15°C)              Meters: ±0.2 to 0.4°F (±0.1 to 0.2°C)</p>	<p><b>Thermocouple</b>              Type J, K, and E probes: ±1.8 to 7.9°F or ±0.4% of reading above 32°F whichever is greater              Type T probes: ±0.9 to 3.6°F or ±0.4% of reading above 32°F whichever is greater              Type R and S probes: ±2.5°F or ±0.25% of reading whichever is greater              Meters: ±0.1 to 1% of reading and ±1.8°F (±1°C)</p>
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