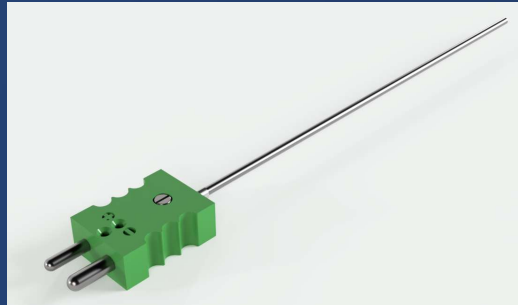


Mechanical Workshop



Thermocouples and RTD Probes

Thermocouple: $(-270/+1700)^{\circ}\text{C}$

- A junction of **two different metals** that generates an electric current proportional to the temperature.
- **Usage:** Automotive, marine, industrial and high-temperature processes.
- **Advantage:** Resilient and capable of measuring high temperatures

RTD Probe: $(-80/+600)^{\circ}\text{C}$

- Uses **platinum**; electrical resistance changes with temperature.
- **Usage:** Laboratories, pharmaceutical industry, and quality control.
- **Advantage:** **High precision** and stability in measurement