Designed specifically for the pharmaceutical and biotechnology industries, Burns Engineering Autoclave RTDs are for use in steam autoclaves and other applications where water may be present in the environment. In addition, the sensing element is fully supported for maximum durability and long-term stability.

**Application**

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**Features and Benefits**

- Completely sealed, waterproof design can be submerged in water without affecting temperature readings or long-term performance
- Waterproof design extends from the sheath, through a dual cramped and sealed transition to the extruded Teflon leadwire preventing capillary action during pressure cycling which forces water into the sensor jacket and up into the transmitter
- 1/8” sharpened tip configurations available for difficult applications and terminal sterilization
- Optional ruggedized cabling to prevent wear and tear of the Teflon insulated jacket
- Epoxy-filled sheathes increase probe durability and hold the sensing element firmly in place
- Effective, economical substitute for more expensive underwater probes
Specifications

Temp Range: -40°C to +135°C

Element Configuration: Dual element, 100 ohms at 0°C, .00385 ohm/ohm/°C nominal alpha

Stability: ±0.05°C (0.02 ohms) maximum shift at 0°C after 1000 hours at 135°C

Repeatability: ±0.05°C (0.02 ohms) maximum shift at 0°C after 20 cycles between 21°C and 135°C

R0 Interchangeability: R0 ±0.10 ohms

Short-Term Repeatability and Hysteresis: ±0.025°C (0.01 ohms) maximum change at 0°C over any 5 consecutive thermal cycles from 0°C to +135°C

Pressure: 1 PSIA to 35 PSIA

Transition Fitting and Cable Temp Limits: -40°C to +135°C continuous

Insulation Resistance: 500 megohms minimum at 100 VDC at room temp

What will your next solution BE?

Durable temperature sensors that deliver accurate, stable and repeatable measurements. BE confident.
Trust Burns Engineering for the most creative solutions to your most challenging temperature-sensing needs.

For current model numbers and precise ordering information, visit burnsengineering.com and search > AUTOCLAVE