

Autoclave Temperature Sensors

Model 21090



Description

Burns Engineering Autoclave Load Sensors are sealed temperature assemblies that eliminate all of the problems associated with steam and vacuum cycling of autoclaves that forces moisture inside standard probes, resulting in incorrect, low temperature readings and reduced life. The waterproof design of the Autoclave RTD is also available in several other configurations, or on other types of probes.

Application

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.

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 crimped 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

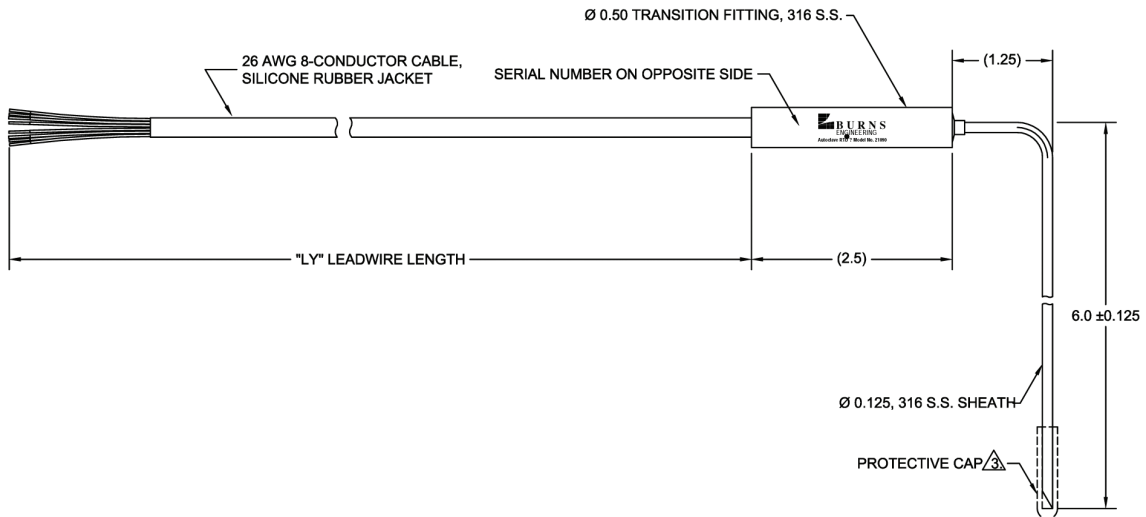
R0 Interchangeability: R0 ±0.10 ohms

Short-Term Repeatability and Hysteresis: ±.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

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