

# Model 310 Industrial Sensor Assembly

**Brand:** Daily Thermetrics



## Short Description

Daily Thermetrics' 310 Series Industrial Sensor Assembly is designed for direct termination into a head via a nipple and union combination. This style can be spring-loaded. This sensor is best suited for use with a thermowell. All aspects of this sensor assembly are customizable, including element type, sheath metallurgy, length, connection type, and head.

## Description

**Unique Features and Advantages** Daily Thermetrics performs X-ray inspection on 100% of thermocouples and RTDs as a standard. This inspection evaluates both the hot (sensing) junction and the transition housing to allow identification of critical issues and faults that would otherwise be undetectable utilizing standard electrical tests. The result is a sensor that has been truly vetted for severe service applications.

**X?RAY OF MEASURING JUNCTION** A concentric microfocus X?ray of the sensing junction is the only way to detect failures that are otherwise undetectable to the naked eye or standard electrical tests. This mitigates issues that will otherwise only appear once the element is installed in the field.

**X?RAY OF TRANSITION HOUSING** An X?ray of the transition housing verifies all wire transitions are strong and that good, uniform epoxy coverage is present. The transition housing protects the thermocouple from outside contaminants and corrosion.

**VACUUM EPOXY SEAL** Moisture in the insulating material is the leading cause of sensor drift and failure. The vacuum epoxy seal prevents moisture or other contaminants from penetrating the hygroscopic mineral insulation.

**SILVER?BRAZED TRANSITION HOUSING** Daily Thermetrics' housings are silver-brazed to the sensor sheath in lieu of the traditional pressure crimp. This joint is a full?circumferential seal that will not deteriorate over time due to thermocycling or stress.

Product Gallery

