

PRODUCT INFO SHEET

Nanmac Corporation

Quality • Performance • Solutions

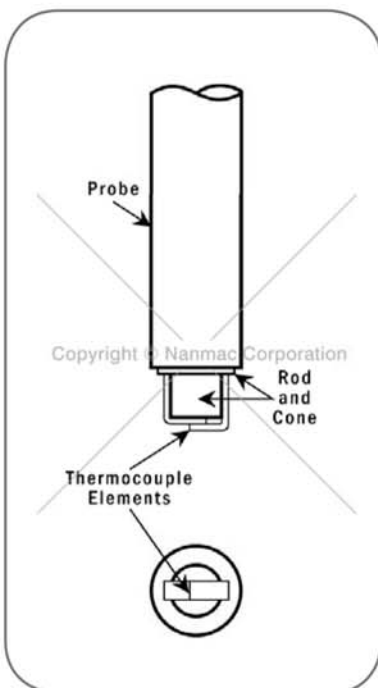
Right-Angle Ribbon Thermocouple for Air, Gas, Liquid, Blind-Hole, and Immersion Temperature Measurement C1 Series

The Right-Angle Ribbon Thermocouple features thermal elements which consist of thin thermocouple alloy ribbons welded together at the sensing tip. These ribbon elements are brought out from opposing sides of the probe along the interface of a high temperature thermally isolating rod and cone assembly. The ribbons in the vicinity of the thermal junction are parallel to the plane of heat source. Thus, both the thermal junction and the ribbons are heated simultaneously and conduction errors are minimized.

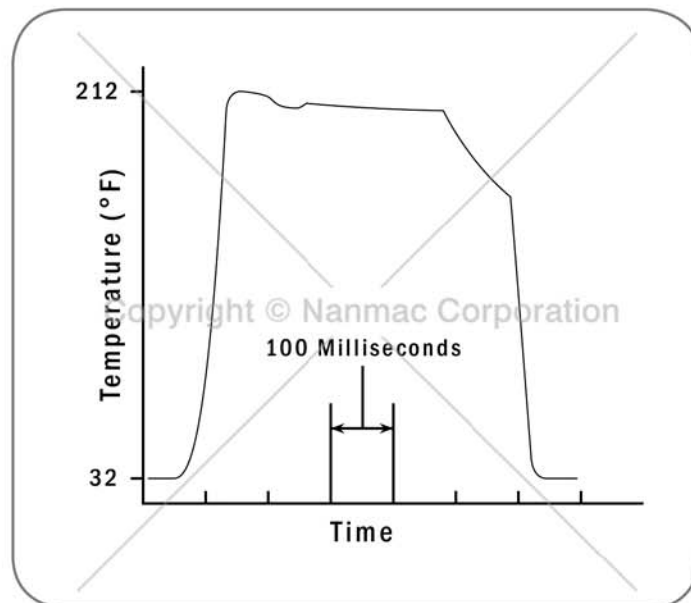
The ribbon elements, due to their mass to surface-area relationship; provide fast response times to equilibrium temperatures since the maximum surface contact area is offered to the heat source.

NOTES:

- Response times of 18 milliseconds in boiling water tests
- Pressure ranges to 10,000 psi, temperature ranges to 3,200 degrees Fahrenheit
- Probe materials may be metal, plastic, or ceramic
- Mountings may be adjustable compression fittings on fixed mountings
- All standard thermocouple calibrations and connectors available.



The test record below is a reproduction of temperature versus time data obtained by manually immersing the Right-Angle Thermocouple from ice water to boiling water then back to ice water.



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