

TMA 4000



Thermal Analysis

Key Benefits

- Accurate Coefficients of Thermal Expansion
- Sensitive Detection of Transitions
- Simplicity of Operation

The TMA 4000 is based on the proven performance of an Archimedean float design, focusing on the stability needed for solid performance for coefficient of thermal expansion and other thermomechanical tests. Capable of giving excellent data on a diverse range of materials, the TMA 4000 operates over a wide temperature and under a range of modes to provide superlative performance.

Thermocouple type	Type K Nickel-Chromel
Temperature range	0 °C to 800 °C
Temperature accuracy	1 °C ¹
Temperature precision/repeatability	0.5 °C ¹
Cooling options:	Chiller, running water
Testing geometries:	Expansion, extension, penetration, flexure, compression, dilatometer
Probe control	Archimedean float and electronic force
Maximum Load ²	2 N
Probe type:	Fused quartz
Probe movement	11 mm
Maximum sample size	Up to 22 mm depending on probe type
Sample height precision/reproducibility	1 micron

¹ Depending on temperature range and calibration

² Electronic plus gravimetric

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