Dilatometry

C-THERM DiL
Dilatometry Series

COEFFICIENT OF THERMAL EXPANSION | PHASE TRANSITION | SHRINKAGE | SINTERING

STREAMLINING

DILATOMETRY

MATERIAL DEVELOPMENT • QUALITY CONTROL • FAILURE ANALYSIS

Optional
Dual Sample Holder

Thermally Stabilized LVDT
Measurement Head

SPECIFICATIONS

TEMPERATURE RANGE	Room Temperature to 1600°C
TEMPERATURE RESOLUTION	0.2°C
MAX DISPLACEMENT	4mm
ΔI RESOLUTION	8 nm/digit
ATMOSPHERE	Air, Vacuum, Inert Gas (optional)
SAMPLE DIMENSIONS	10 to 50mm long x max ϕ12mm
SAMPLE HOLDER	Fused Silica, Alumina
CONFIGURATIONS	Single or Dual LVDT System 1200°C or 1600°C furnace
HEATING ELEMENT	FeCrNi, SiCr
RATE OF INCREASE (°C)	> 30°C/min

Unparalleled Ease-of-use

Change out furnaces, pushrods, thermocouples and tubes in a matter of seconds.

Dilatometry provides key expansion and shrinkage metrics of materials under defined temperatures. Leveraging C-Therm's advanced electronics controller, the DiL Series provides unparalleled ease of use in the study of ceramics, glass and metal alloys. Change a pushrod or thermocouple in seconds, or scale your investment by upgrading to dual-rod and multiple furnace options. There's no stress with the LVDT auto-alignment feature - simply place your sample and ramp up the heat. Put C-Therm's DiL Series to work for you.

ASTM E228 Compliant

For more information, contact:

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COEFFICIENT OF THERMAL EXPANSION • GLASS TRANSITION

PHASE TRANSITION • SHRINKAGE • SINTERING