



TPS 2500 S

Hot Disk Thermal Constants Analyser



Thermal Constants Analyser

TPS 2500 S

Top of the line Thermal Constants Analyser

The TPS 2500 S is the flagship instrument in the system portfolio of Hot Disk AB. This general-purpose R&D instrument is designed for precision analysis of thermal conductivity, thermal diffusivity and specific heat capacity of most material types, and meets ISO Standard 22007-2.

The operative simplicity of the TPS 2500 S and the performance achieved when using Hot Disk sensors, makes this system an ideal, trustworthy tool for tests of solids, liquids, powders, pastes and foams. The instrument can directly test the anisotropy of most specimens, e.g. laminates, polymers, batteries, fibrous materials and layered structures. The trademark accuracy and precision makes the instrument suitable for QC testing, either online or near-line, controlled via TPC/IP.

Each TPS 2500 S is tailored according to application specifications, temperature range etc. Recurrent software up-grades ensure low maintenance costs and an up-to-date instrument. Currently nine software modules are available for the TPS 2500 S, including: Isotropic Standard, One-Dimensional, Anisotropic, Slab, Thin Film, Specific Heat Capacity, Structural Probe, Low-Density/Highly-Insulating and Automatization modules.

For further information please visit our homepage: www.hotdiskinstruments.com



The Hot Disk Sensor

THERMAL CONSTANTS ANALYSER

TPS 2500 S



Hot Disk TPS 2500 S

Thermal Conductivity	0.005 to 1800 W/m/K.
Thermal Diffusivity	0.1 to 1200 mm ² /s.
Specific Heat Capacity	Up to 5 MJ/m ³ K.
Measurement Time	1 to 1280 seconds.
Reproducibility	Typically less than 1%.
Accuracy	Better than 5 % (thermal conductivity).
Temperature Range	-235 °C to 1000 °C.
With Furnace	Ambient to 750 °C (1000 °C oxygen free).
With Circulator	-35 °C to 200 °C.
Power Requirements	Adjusted to the line voltage in the region of use.
Smallest Sample Dimensions	0.5 mm x 2 mm diameter or square for bulk testing. 0.1 mm x 10 mm diameter or square for slab testing. 5 mm x 3 mm diameter or square for one-dimensional testing.
Largest Sample Size	Unlimited.
Sensor Types Available	All Kapton sensors. All Mica sensors. All Teflon sensors.

Meets ISO Standard 22007-2.



Hot Disk®

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