

# TPS 1500

Hot Disk Thermal Constants Analyser



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### Heavy-duty Thermal Constants Analyser

The robust Hot Disk TPS 1500 is the ideal instrument for testing and measuring the thermal conductivity of building materials, insulation materials or any other type of large bulk samples. The TPS 1500 shares the sterling quality and operative simplicity of the benchmark Hot Disk TPS 2500 S and meets ISO Standard 22007-2.

By utilizing the unique Hot Disk sensors, the TPS 1500 system serves as a reliable tool for testing the thermal properties of solids, powders, pastes and foams. If larger samples are available, also highly conducting samples, such as metals, semi-conductors and high-conductivity oxides, can be tested with the TPS 1500. The construction industry, for example, will see concrete and cement mixtures, woods, fibrous structures, and insulating materials readily and efficiently analysed.

Each TPS 1500 is tailored according to application specifications, temperature range etc. Recurrent software up-grades ensure low maintenance costs and an up-to-date instrument. Currently six measurement modules are available for the TPS 1500, including: Isotropic Standard, One-Dimensional, Anisotropic, Specific Heat Capacity, Low-Density/Highly-Insulating and Automatization modules.

For further information please visit our homepage: [www.hotdiskinstruments.com](http://www.hotdiskinstruments.com)



The Hot Disk Sensor

THERMAL CONSTANTS ANALYSER

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<b>Thermal Conductivity</b>	0.01 to 400 W/m/K.
<b>Thermal Diffusivity</b>	0.1 to 100 mm <sup>2</sup> /s.
<b>Specific Heat Capacity</b>	Up to 5 MJ/m <sup>3</sup> K.
<b>Measurement Time</b>	20 to 1280 seconds.
<b>Reproducibility</b>	Typically better than 1%.
<b>Accuracy</b>	Better than 5 %.
<b>Temperature Range</b> With Furnace With Circulator	Cryogenic to 750 °C. Ambient to 750 °C. - 35 °C to 200 °C.
<b>Power Requirements</b>	Adjusted to the line voltage in the region of use.
<b>Smallest Sample Dimensions</b>	3 mm x 13 mm diameter or square for bulk testing. 20 mm x 7 mm diameter or square for one - dimensional testing.
<b>Sensor Types Available</b>	Kapton sensors: 5465, 5501, 8563, 4922, 5599. Mica sensors: 5465, 5082, 4921, 4922, 5599. Teflon sensors: 5465, 5501.

Meets ISO Standard 22007-2.



**Hot Disk<sup>®</sup>**

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