Linseis Dilatometer L 75 / 2000

The Dilatometer of the series L75/2000 is a Dilatometer built for highest temperatures. The used graphite furnace can reach temperatures up to 2000°C or in an extended version up to 2400°C. For the higher temperature a bigger power supply is necessary.

The used graphite furnace is a high precision component which is made from Thermal Technology Company USA. It uses an easily exchangeable graphite heating element. The complete furnace is water cooled and produces very fast heat up and cool down cycles.

The dilatometer measurement uses the well known Linseis LVDT sensor technology with a resolution of up to 10 Nanometer (1,25 Nanometer / digit).

It is available as single or dual push rod version. It has several important features as are automatic zero setting, automatic pressure control with digital display. The sample length can vary between 1 mm and 50 mm.

For operation of this Dilatometer it is necessary to use a rotary pump, to evacuate the furnace. It will then be filled with high purity nitrogen gas. Other gases like Argon, Helium are also possible. The atmosphere is always reducing, because of the graphite heater. There is however the possibility to use an Al2O3 protection tube inside the furnace up to 1750°C. With this Al2O3 protection tube the sample can be run under air, oxidizing or reducing atmosphere.

The modular construction of the Dilatometer enables easy built up and service of the system. The system comes complete with the comprehensive Linseis 32 Bit software package.

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