

Coupling a Thermal Balance L81 / II with a HDSC (DTA) measuring head and a FTIR - gasanalysis system NEXUS



Linseis Thermal Analysis is introducing in cooperation with Nicolet USA the coupling of a thermal balance with DTA / HDSC measuring system and an infrared spectrometer type NEXUS. This thermal balance with EGA Gas Analysis is now released for shipments worldwide.

Hereby the possibilities of the thermal analysis (weight change, enthalpy and the thermal behavior of the sample), are enhanced and complemented by additional information retrieved from FTIR spectroscopy.

Especially we are now able to retrieve reliable information about the gases which are evolved when heating up of the sample.

Applications are for example the EGA analysis of toxically gases that are evolved at waste disposal plants. Also the emissions evolved,

when drying varnish in the automotive industry, characterizing of epoxy resin systems as well as damage assessment, quality control and determination of polymer materials, aging studies etc.

The connection of the FTIR spectrometer is done through a heated capillary. Hereby the condensation of the evolved gases is avoided on it's way from the balance to the FTIR.

The spectrometer and the thermal balance are connected to a common PC by a PCI-bus card and both work under Windows programs. The controlling and data acquisition of the balance and the FTIR spectrometer will be done by the computer. The measuring results are retrieved simultaneously and can be printed out and evaluated even when a measurement is going on.