

## Coupling thermobalance L81 / II with HDSC (DTA ) measuring head and FTIR - gas analysis system NEXUS



In cooperation with the company Nicolet, the company Linseis Messgeräte GmbH has realized a coupling of thermobalance with DTA or HDSC - measuring system and an infrared spectrometer of the type NEXUS and now currently in the scope of delivery.

Thereby the possibilities of the thermal analysis (weight change, enthalpy and thermal behavior of the sample) are supplemented by statements of the FTIR spectroscopy.

Particularly about the gases released during heating of the sample in the thermobalance further insights can be gained.

Areas of application for this are, for example measurement of toxic gases during incineration, emissions during

paint drying, characterization of epoxy resin systems as well as damage analysis, quality control and determination of polymeric materials.

The FTIR spectrometer is connected via a heated capillary. This avoids cooling of the gases on the way between the balance and the FTIR.

Like the thermal balance, the spectrometer used is connected to a common computer by means of a PCI bus card and operated under the MS Windows operating system. The PC takes over the control and data acquisition of both the thermobalance and the FTIR spectrometer. The measurement results can be displayed, processed and printed out at the same time. be printed.