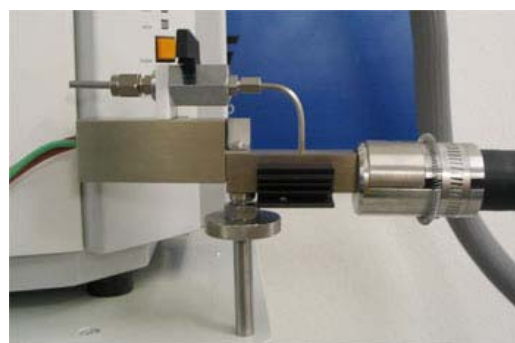


# LINSEIS Evolved Gas Analysis (EGA) with Thermal Balance L81/1550 and JASCO FTIR Spectrometer series 460



Linseis Instruments has developed in cooperation with JASCO Corporation a coupling between a thermal balance L81/1550 and a JASCO FTIR Spectrometer series 460.

With this coupling it is possible to further enhance the possibilities of the thermal balance through additional information given through the FTIR spectrometer.



Now on top of information about the weight change of temperature, enthalpies, specific heats and the general behaviour under temperature changes, a full evolved gas analysis can be performed. The knowledge of these gases, which were burned off in the balance, leads to the understanding of which products have been burned off.

Good applications for these EGA measuring techniques are the measurements on the remains of toxic gases coming out of burned household waste.

Also interesting for environmental control are the measurements on lacquers that are used in automotive industry, whereby gases can reach the environment.

The FTIR spectrometer is connected to the balance through a heated capillary with 3 separate heated parts. The heating of the connector is necessary, in order not to get condensation of the hot gases before they reach the FTIR Spectrometer cell.

A common computer controls both the thermal balance and the FTIR Spectrometer. Hereby all obtained results are presented in one single screen / print out.