

Simultaneous TG (Thermogravimetry), DSC (Differential Scanning Calorimeter) and DTA (Differential Thermal Analysis)

Maximum Temperature : 1200°C

Maximum heating rate : 100°C/minute up to 1000°C & 25°C/minute above 1000°C Heating rate programmable (up to 10 different heating rates possible in one analysis)

Atmosphere : Air, Nitrogen.

Sample : Solids, Maximum sample weight = 10 mg
Sample weight used in most measurements = 3-5 mg
Balance sensitivity = 0.1 microgram

Software : Thermal Advantage

Description :

TGA, a sample is heated with a programmed thermal history and under controlled atmosphere and the weight loss is continuously monitored. Therefore behaviour of solid fuels both under pyrolysis, in inert atmosphere, and combustion conditions can be studied.

The horizontal balance design is well suited for simultaneous DSC-TG or DTA-TG measurements. DSC stands for "differential scanning calorimetry" and DTA for "differential thermal analysis". DTA measures the temperature difference between a sample and a reference material. DSC is a technique in which the difference in heat flow to a sample and to a reference is measured.

Application:-

Characterization of Materials in Battery industries, Sensors, Polymers.

