



STA N-650/1000/1200/1500

Simultaneous Thermal Analyzer



Description

SCINCO is proud to introduce our next generation high performance Simultaneous Thermal Analyzer, the STA. With 0.1 microgram balance resolution, advanced control algorithms and cutting edge design, the STA N-series offers previously unavailable value in a high performance instrument. Our highly sensitive heat flux plate provides accurate and reproducible heat flow data along with simultaneous mass measurement during the entire experiment. The instrument is ideally suited for evolved gas analysis, with its low purge gas flow and excellent sample environment. The STA can be configured to meet all your specific thermal analysis testing needs.

The STA is controlled by the Thermal Analysis software. This unique Windows based software offers a very simple interface with all of the features you need to analyze your thermal data. The software is available for Windows 10.

Applications

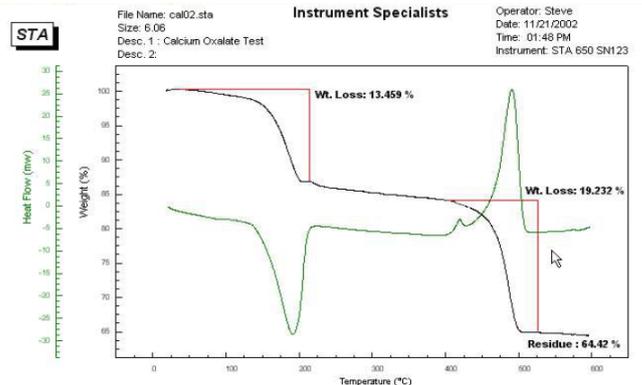
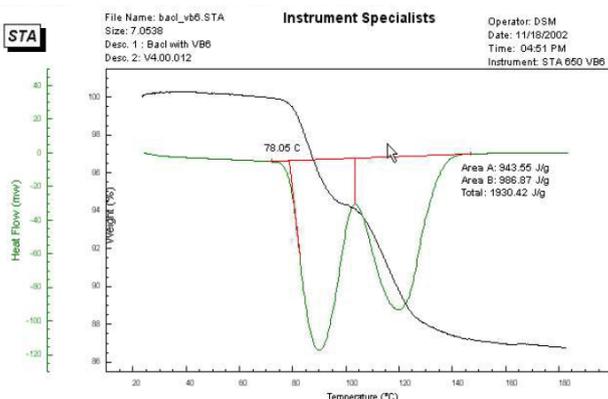
- ❖ Thermal Stability
 - ❖ Pyrolysis
 - ❖ Oxidation
 - ❖ Dehydration
 - ❖ Decomposition
 - ❖ Kinetics
 - ❖ Combustion
 - ❖ Moisture
 - ❖ Residue or Ash
- ❖ Research
 - ❖ Quality control
 - ❖ Glass transition
 - ❖ Melting points
 - ❖ Crystallization time and temperature
 - ❖ Boiling points
 - ❖ Thermal stability
 - ❖ Purity
 - ❖ Degree of cure
- ❖ Heat of fusion
 - ❖ Heat of reactions
 - ❖ Heat capacity
 - ❖ Effects of additives
 - ❖ Polymer blends
 - ❖ Effect of recycled materials
 - ❖ Rate of cure
 - ❖ Oxidative stability

Barium Chloride

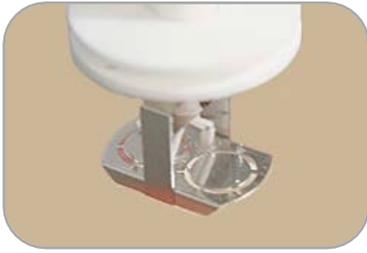
This is an example of a reference material that shows temperature and enthalpy accuracy. In addition this represents a good example of a fused peak analysis.

Calcium Oxalate

Calcium Oxalate is an excellent demonstration material for both DSC and TGA. This sample was run in the presence of Oxygen. The first DSC peak has an associated weight loss and represents bound water.

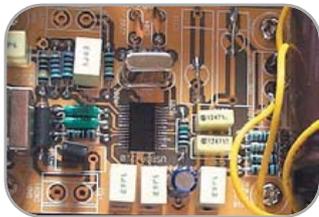


Key Features



● High Performance

- Vertical hangdown for high stability
- True simultaneous measurement of DSC and TGA
- Heat flux plate type DSC
- Direct sample measurement



● Facilities

- USB Interface
- 24 bit resolution
- EGA available
- LN2 cooling available
- Multiple module operation

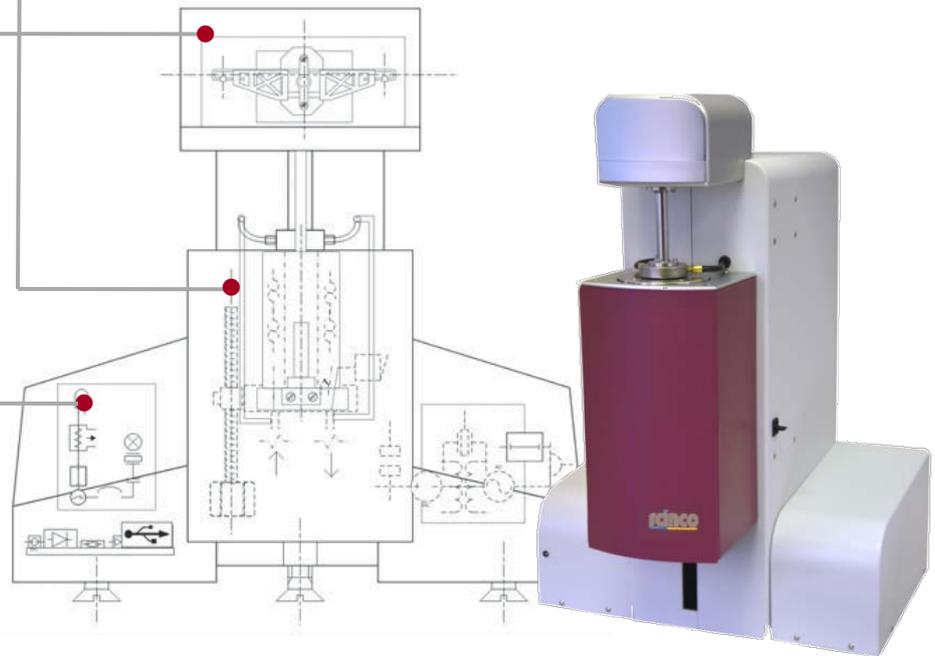


● Furnace

- Small swept volume 7.5 ml
- Dual purge
- Motor driven
- 3 options furnace for wide Temp. range -125 to 1500 °C
- Water cooled type for high speed cooling and safety of electronics

◆ Options

- Liquid Nitrogen cooling attachment
- Sample crimper and sealer
- Automatic GSA (Gas Switching Accessory) up to 4 gases
- Heated transfer line and controller for EGA



Specifications

Model	STA N-650	STA N-1000	STA N-1200	STA N-1500
Temperature range	-125 °C to 650 °C	Ambient to 1000 °C	Ambient to 1200 °C	Ambient to 1500 °C
Programmed Rate	0.1 – 100 °C/min	0.1 – 40 °C/min	0.1 – 40 °C/min	0.1 – 40 °C/min
DSC Sensitivity	<1 μW	<4 μW	<4 μW	<4 μW
Mass range	400 mg	400 mg	400 mg	400 mg
TGA Sensitivity	0.1 μg	0.1 μg	0.1 μg	0.1 μg
Thermocouple	Type K	Type R	Type R	Type R
Dimensions	535mm (W) x 415mm (D) x 635mm (H)			

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