



Differential Thermal Analyzer FM-DTA-A101

Overview

Differential Thermal Analyzer FM-DTA-A101 comes with a furnace body with lid design. It records absorption or emission of heat, physical and chemical changes occurred in a sample with respect to a reference inert material at different phase transitions such as crystallization, melting and sublimation etc. The DTA curve states the changes in phase transition depending on time and temperature.

Specifications :

| | |
|----------------------------------|---|
| Temperature range | RT to 1350°C |
| Measurement range, DTA precision | 0 to 2000 μ W, - 0.1 μ V |
| Sample analyzed | Solid and liquid Sample |
| Heating speed | 1 to 80°C/ min |
| Temperature resolution | 0.1°C |
| Temperature accuracy | - 0.1°C |
| Temperature repeatability | - 0.1°C |
| Air cooled program control | Built-in speed fan next to furnace body |
| Atmosphere control | Built-in gas flowmeter (250ml/min maximum) |
| Display | 24 bit color 7 inch LCD touch screen display |
| Data interface | USB connector, supporting data line, operating software |
| Power consumption | d 2000 W |
| Power supply | AC 220 V, 50 Hz |

Features :

- Solid and liquid sample analysis
- Temperature range RT to 1350°C (FM-DTA-A101)
- Measurement range 0 to 2000 μ W
- User can adjust baseline slope and intercept
- Built-in speed fan to reduce temperature outside furnace body
- Tests relationship between test and reference sample
- Microprocessor controlled technology to control temperature

Applications :

Differential thermal analyzer is used in material characterization across analytical chemistry, metallurgy, pharmaceutical industry, food, environmental, fields research and testing.

Accessories Optional :

| Accessories no | Name | Details |
|----------------|-------------------|---|
| 1 | Aluminum Crucible | Inner diameter 5 × 5 mm, Temperature < 600°C |
| 2 | Ceramic Crucible | Inner diameter 5 × 4 mm, Temperature < 1600°C |