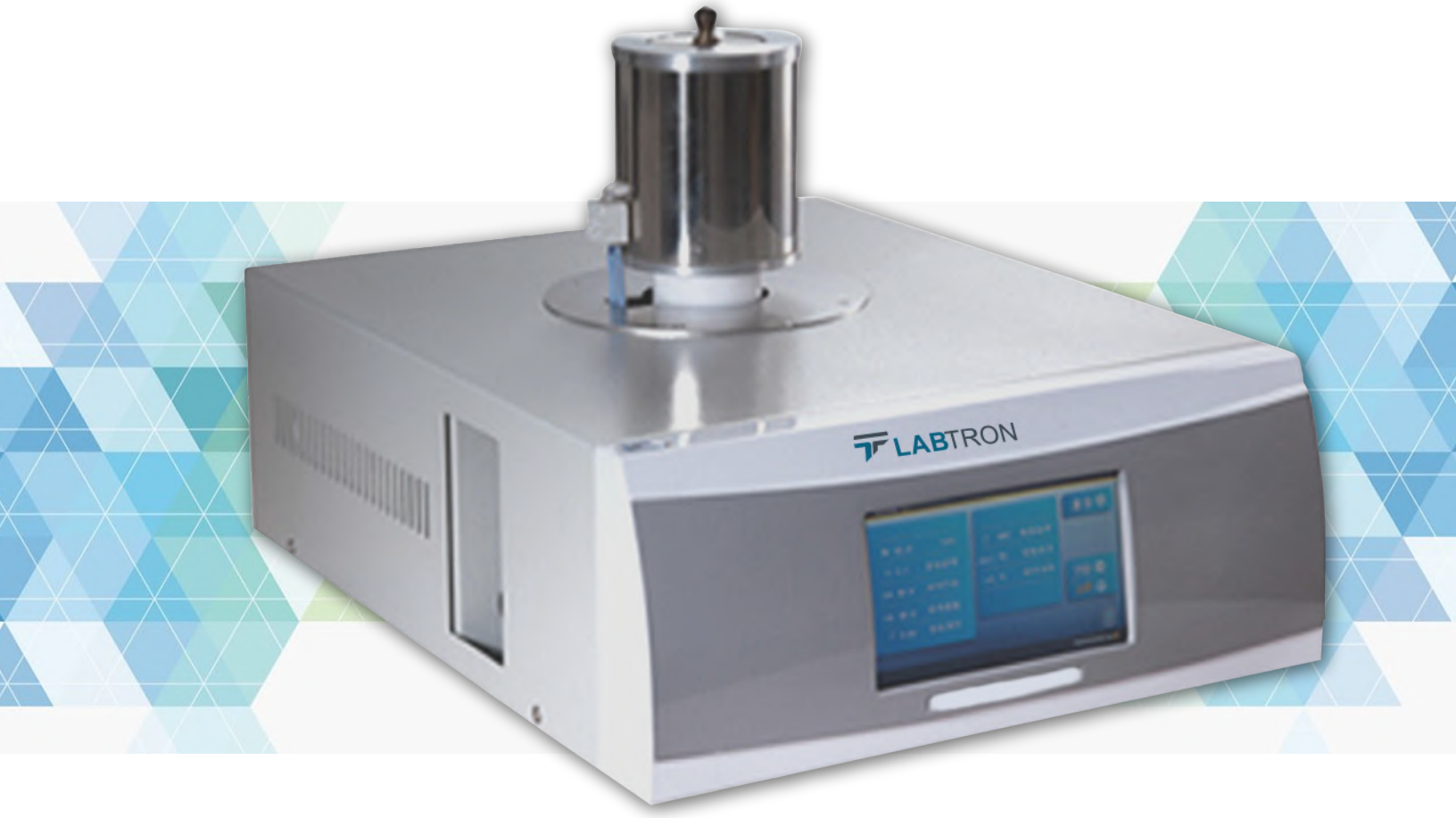
LABTRON

Differential Thermal Analyzer

LDTA-A1 Series



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Differential Thermal Analyzer LDTA-A1 Series

Differential Thermal Analyzer LDTA-A1 series is designed to record absorption or emission of heat (physical and chemical) changes occurred in a sample at different phase transitions. It identifies, quantifies the chemical composition of a sample by heating the sample and recording the temperature, heat flow rate between different phase transitions such as crystallization melting and sublimation.

Features

- Solid and liquid sample analysis
- Temperature range RT to 1150 ^{0}C (LDTA-A10)
- Temperature range RT to 1350 ^{0}C (LDTA-A11)
- Measurement range 0 to 2000 µV
- Heating speed 1 to 80°C/ min
- Built-in speed fan to reduce temperature outside furnace body
- Tests relationship between test and reference sample

Applications

Used in material characterization across analytical chemistry, metallurgy, pharmaceutical industry, food, environmental, construction fields research and testing.

Specification

Model no.	LDTA-A10	LDTA-A11
Temperature range	RT to 1150 ^{0}C	RT to 1350 ^{0}C
Measurement range, DTA precision	0 to 2000 µV, ± 0.1 µV	
Sample analyzed	Solid and liquid Sample	
Heating speed	1 to 80 ^{0}C/ min	
Temperature resolution	0.1 ^{0}C	
Temperature accuracy	± 0.1 ^{0}C	
Temperature repeatability	± 0.1 ^{0}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	≤ 2000 W	
Power supply	AC 220 V, 50 Hz	