

SKZ1052A Differential Scanning Calorimeter



Touch screen type, Apply to: glass transition temperature, melting point, cold crystallization, crystallization, phase transition, oxidation induction time (OIT).

Standards:

ISO/TR10837:1991, ASTM D3895-1998, ASTM E 967, ASTM E 968, ASTM E 793, ASTM D 3895, ASTM D 3417, ASTM D 3418, ISO 11357-6

Technical Feature

- Widescreen touch structure of industrial level, rich display information, including the set temperature, sample temperature, oxygen flow rate, Nitrogen flow, differential thermal signals, all kinds of switch state, flow goes to zero.
- USB communication interface, generality is strong, reliable communication don't interrupt, support the restore connection function.
- Furnace structure is compact, arbitrary adjustable cooling rate.
- Improved installation process, all adopt the machinery fixed way, completely to avoid contamination of furnace inside colloid to differential thermal signal.
- Double temperature probe, make sure the height of the sample temperature measurement repeatability.
- Digital gas mass flowmeter atmosphere automatic switching two way traffic, fast switching and stable time is short.
- Standard samples, convenient customer constant temperature correction coefficient.
- Software adaptive resolution of computer screens, each software automatically according to the computer screen size to adjust the curve display mode. Support for notebook, desktop; Support the Win2000, XP, VISTA, Windows 7 operating system, etc
- Support user programming procedures, to achieve fully automated measuring step. Software provides dozens of commands, users can according to your own measurement steps, and combined the orders, and save.

Specification

- 1: the range of temperature: room temperature to 500 °C
- 2: the temperature resolution: 0.1 °C
- 3: heating rate: 0.1 ~ 80 °C / min
- 4: DSC range: 0 ~ + 200 mw
- 5: DSC resolution: 0.01 mW

- 6: DSC sensitivity: 0.1 mW
- 7: working power supply: AC 220 v, 50 hz or custom
8. Product weight, 23 kg
9. product dimensions: length 45 cm * 30 cm * 27 cm
10. aluminum box size: 41 cm * 30 cm * 53 cm
11. paper box outside wrapping paper box size: 50 cm * 60 cm* 39 cm

Software:

The screenshot shows the 'Parameter' window of the DSC software. It includes a 'Parameter protection' section with a password field and a list of parameters that can be modified. The 'The test information' section contains fields for sample name, units, operator, weight, and gas flow rates. The 'Instrument parameters' section includes heating rate, start/end/hold temperatures, measuring time, and oxidation peak settings. Below these is a 'Temperature curve' graph showing a linear ramp from 0 to 300°C over 30 minutes, followed by a 50-minute hold at 300°C. A table to the right of the graph lists the parameters for each segment.

ID	Start temperature(°C)	End temperature(°C)	Duration(minutes)	Heating rate(°C/minutes)
1	0	300	30	10.0
2	300	300	50	0.0

The screenshot shows the 'Measure Window' of the DSC software. The main graph is titled 'DSC Sample Curve' and plots DSC (mW) on the left y-axis and Temperature (°C) on the right y-axis against Time (minutes) on the x-axis. The DSC curve shows a baseline shift corresponding to the sample's thermal transition. The temperature curve shows a linear ramp followed by a hold. The 'Control' panel on the right displays real-time data for DSC signal, set and sample temperatures, and gas flow rates. It also includes buttons for temperature control (Run, Stop, Hold) and gas control (Open/Close valves).