

MDSC with the new Tzero-Technology

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The Tzero heat flow signal detects the heating rate difference between the sample and reference platform. The Advanced Tzero technique further improves the resolution by correcting for sample and reference pan imbalances. Furthermore, thermal lag can cause significant error in the reporting of temperature data - especially, peak data - unless it is properly corrected. Advanced Tzero Technology compensates for thermal lag directly in its measuring circuitry.

Tzero Technology accounts for these imbalances and produces a more accurate and precise representation of the actual heat flow to and from the sample. Modulated DSC is an advanced DSC technology that permits separation of the total heat flow signal into its more easily interpreted heat capacity and kinetic related components. Advanced Tzero technology, enables the use of shorter periods, which allows heating rates more than twice that previously attainable. The technology has increased the accuracy, and greatly reduced the frequency dependence of heat capacity measurements by Modulated DSC.