

ΟΙΤ





DSC

There are two models in HT-DSC-DH Series Differential Scanning Calorimeters. They are of great use in Universities, Scientific research Institutes, Industries like, Chemical, Pharmaceutical, Polymers, Pipes, Cables etc...



HT-DSC-D1H

It is specially configured for dedication application of measuring OXYDATION INDUCED TIME (OIT)

At experiment the DSC curve is recorded, mark out to have nitrogen to cut over oxygen of point A1, when the DSC curve obviously changes the tangent of the biggest inclined rate, mark the point A2 of intersection of biggest tangent and baseline extension, the time from A1 to A2 is oxidation induction time (min).

Systemised Solutions 44 Your Need

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HT-DSC-D2H

It is best suited for analyzing the Thermal Effect and corresponding Temperature produced by the physical or Chemical changes of organic or non-organic materials under controlled Temperature program. It is very useful for determining Melting Point, Enthalpy changes, Glass Transition Temperature, etc...

Confirms to

ISO 11357 Part 1 General Principles

ISO 11357 Part 2 Determination of Glass Transition Temperature

ISO 11357 Part 3 Determination of Temperature & Enthalpy of Melting & Crystalisation





Features

- Small Size facilitates quicker rise and reduction of temperature.
- High Resolution A/D (24bit) with high data sampling gives High Accuracy and Low drift
- DSC signal scale: -200 to 200 mw accuracy of 0.02 mw
- Intelligent Micro-controller based Temperature Controller provides Temperature Accuracy of 0.1 °C even over a long period of time.
- Numerical Mass Flow Meter with computer control for accuracy of flow as good as 0.2 ml/min. Even during Gas Switch it will stabilize the flow quickly.
- Colour LCD Display shows Data of different thermal signals, Determined Temperature, Sample Temperature, Oxygen flow, Nitrogen Flow etc..
- USB interface with PC.
- WINDOWS XP to WINDOWS 8 compatible software for both 32 bit as well as 64 bit OS.
- Automatic Temperature Calibration using Software
- Automatic Calculations using Software

DSC

- ✓ +/- 10, +/-20, +/-40, +/-100, +/-160, +/-200 mW with Auto Ranging
- ✓ Accuracy : 0.02 mW

Controlled Temperature

- ✓ Temperature Range : RT to 500 °C
- ✓ Temperature Accuracy : 0.1 °C
- ✓ Heating Rate : 1 to 30 °C / min

Gas Control

- ✓ Gas Flow Range: 0 to 200 ml / min
- ✓ Flow Control Accuracy : 0.2 ml / min
- ✓ Gas Pressure 0.2 MPa

Crucible

- ✓ Material Aluminum
- ✓ Dimension : Ø 6.7 mm X 2.5 mm

Dimension

✓ 400 X 320 X 200 mm (W X D X H)

Operating Condition

Room Temperature : 15 °C to 25 °C Humidity : 55 to 75% RH

Power

220 V AC, 50 Hz spike free and stabilised power with proper Earthing.





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