

# Rapid Screening Device RSD™

**A new cost-effective calorimeter for screening samples for exothermic reaction hazards**

**Determining Time, Temperature and Pressure with a Macro Sample**

Temperature Range	Sub ambient to 400°C
Pressure Range	0-60 Bar
Sample Size	0-10g or ml
Scan Rate	0-10°C/min
Temperature Resolution	0.01°C
Pressure Resolution	0.01 bar
Detection Sensitivity	less than 10J/g (dependent on kinetics of reaction)



3 samples under test



Selection of sample holders

## Sample Containers

- Glass "HPLC" vials
- Metal 'tube' sample holders  
(Ti, Hastelloy-C, SS-314)
- Spherical ARC 'bomb'  
(Ti, Hastelloy-C, SS-314)

## Applications:

- **Rapid screening of many samples**  
(Screening multiple samples at high rates before more extensive testing)
- **Entry level hazards calorimetry**  
(operating fewer samples at lower rates for high accuracy data)

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Fax: +44 1908 645209

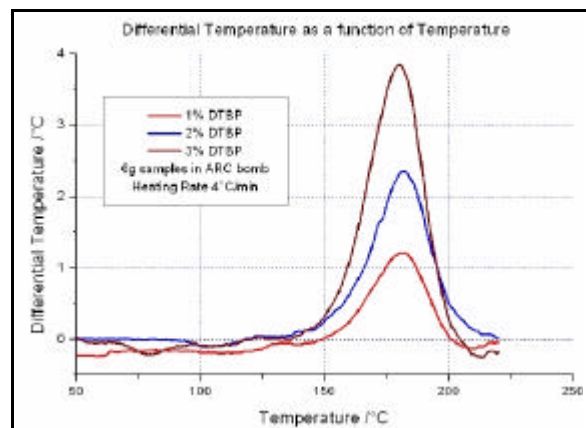
1 Possumtown Road, Piscataway,  
NJ 08854, USA.  
Toll-free: 1-888-688-7074  
Phone: (732) 805 9100

## Testing 1-6 samples simultaneously: (Normally used with reference sample)

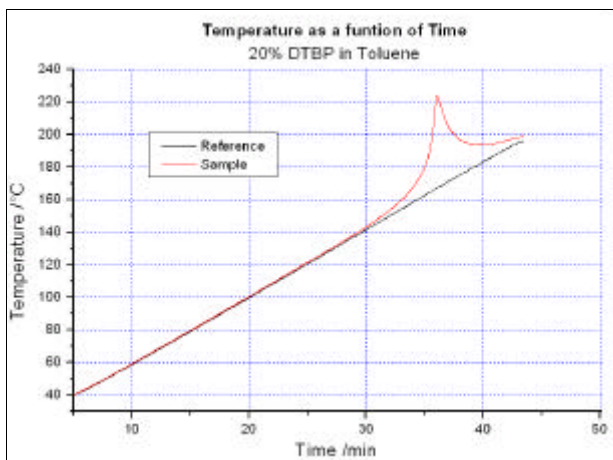
Rapid turn round—inexpensive with low running costs  
Excellent sensitivity and temperature control

Quick and easy to use the THT RSD™ allows multiple samples to be quickly studied for temperature and pressure deviation issues over a wide temperature range.

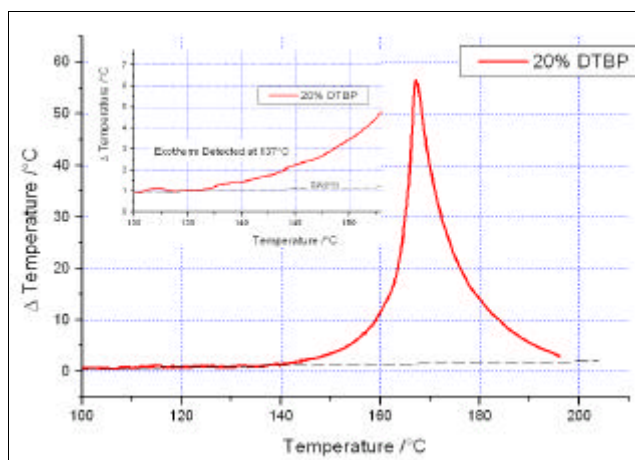
Using temperature ramp methods with isothermal soak options this new system utilises unique technologies to quickly obtain temperature, pressure and heat of reaction data.



High sensitivity testing of low DTBP sample



20% DTBP showing speed of detection and accuracy of onset determination



With windows based GUI software the system is easy to set-up and use. The system also has agitation options, safety interlock and pressure relief features.

The new THT RSD™ answers all the needs of a modern safety screening calorimeter. Contact THT for further details.

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