Technical Specifications

NETZSCH

DSC 214 *Polyma*	
Temperature range	-170°C to 600°C
Heating/Cooling rate	0.001 K/min to 500 K/min*
Indium Response Ratio	> 100 mW/K**
Resolution (technical)	0.1 µW
Enthalpy precision	▪ ± 0.1% for indium ▪ ± 0.05% to ± 0.2% for most samples
Specific heat determination	Optional
Temperature modulation	Optional
Cooling device options	▪ Compressed air cooling (RT to 600°C) ▪ IC40 (-40°C to 600°C) ▪ IC70 (-70°C to 600°C) ▪ LN$_2$, automatically controlled (-170°C to 600°C)
Gas atmospheres	Inert, oxidizing, static and dynamic operation
Gas controller	▪ Switches for 3 gases included ▪ MFC for 3 gases, optional
ASC	Up to 20 samples and references, optional
Software	*Proteus®,* including *SmartMode, ExpertMode, AutoCalibration, AutoCooling, AutoEvaluation, Identify, OIT, predefined methods, etc.* The software runs under the operating systems, Windows® 7, Windows® 8.1. and Windows® 10

*   Maximum rates depend upon the temperature
** Related to indium as standard material under measurement conditions typically used for polymer investigation (10 mg sample mass, 10 K/min heating rate, nitrogen atmosphere)