THEMYS LV

ULTRA-HIGH TEMPERATURE CAPABILITY
to 2000 °C with a single furnace

LARGE VOLUMES
for testing more significant sample sizes

HIGH ACCURACY & VERSATILITY
hang-down symmetrical beam balance, specifically designed for TGA applications

MODULAR ADAPTATION ALLOWING
up to 2000 °C: TGA, DTA, TG-DTA, TMA
up to 1600 °C: TG-DSC, DSC

TMA MODULE WITH PRESERVATION OF SAMPLES
due to low load vertical system

EXTERNAL COUPLING CAPABILITY
designed for evolved gas analyzers

GENERAL		TGA	STA		TMA
			DTA, TG-DTA	DSC, TG-DSC	
Temperature range (°C)		Ambient to 2000	Ambient to 2000	Ambient to 1600	Ambient to 2000
Programmable heating rate (°C/min)		0.01 to 20			
Crucibles volumes and maximum sample size		4.5 to 18.1 ml or Height: 80 Diam: 20 mm without crucible	220 to 500 µl	360 to 420 µl	Height : 50 Diam : 15 mm
	GasBlend option	1 carrier gas flow among 3 connected + 1 auxiliary gas flow, 2 MFC			
	Corrosive gases option	1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC) + 1 corrosive gas line without mass flow control			
Vacuum		Primary (< 1 mbar), forced primary (< 5.10^{-2} mbar)			
BALANCE					
Measuring range (mg)	**Small**	+/- 200			
	Large	+/- 2 000			
Maximum loading capacity (g)		100			
TGA baseline drift (temperature scanning)[b,c]		< 100 µg up to 1 700 °C			
Balance resolution (small range) (µg)		0.02			
DTA/DSC			DTA, TG-DTA	DSC, TG-DSC	
Temperature precision (°C) [c, e]			+/- 2		
Temperature accuracy (°C) [c, e]			+/- 1		
TMA					
Resolution (nm)					1.6
Measuring range (mm)					+/- 6

b. Under helium flow; c. Typical data; e. Based on metal standard melting
Specifications are subject to change