

The THEMYS line

YOUR VERSATILE PLATFORM



THE KEP TECHNOLOGIES ADVANTAGE

KEP Technologies is not simply an instrument company, but a full solution provider.

We do not claim that a single product is suited for all applications and have with our SETARAM brand developed a range of products with different characteristics to more closely meet your demands.

We are confident that with KEP Technologies you will find a dedicated thermal analysis solution with the performance you need to get the best understanding of your materials. This being the case no matter which of our below market segments you may work in.



ENERGY & ENVIRONMENT

Batteries materials thermal stability Biomass pyrolysis and combustion Sorption of CO₂ and other gases or vapors Coal composition Nuclear fuel and wastes thermal stability



INORGANIC MATERIALS SCIENCE

Thermal stability, compositional analysis of ceramics, minerals, building materials, nanomaterials High temperature oxidation of metals, reduction of oxides Phase diagrams, thermal expansion, sintering of ceramics and metals

ORGANIC MATERIALS SCIENCE

Thermal stability, compositional analysis of polymers and plastics. Reverse engineering, Thermal recycling, Processes like pyrolysis



PROCESS

SAFETY

LIFE SCIENCES

Pharmaceutical materials: water content, residual solvents, thermal stability, reverse engineering

Thermal stability of energetic materials, chemistry of thermal decompositions

Each THEMYS thermal analyser also embodies our "Reimagine Material Characterization" value proposition. It does so by delivering the three core customer benefits of Experimental Control, Instrument Versatility and Quality Results.

We know that solutions that provide these benefits will deliver the highest value to our customers.

In addition to our core customer benefits, we are able to provide customized solutions by harnessing the engineering and project management expertise of our highly skilled organization.

THE THEMYS LINE

Owing to their symmetrical beam balances, the THEMYS line of thermal analyzers combine the highest sensitivity, stability, and the most accurate measurements of mass variations vs temperature or time.

Most systems within the THEMYS family line provide the user with a high level of versatility thanks to a modular design. It may include the simultaneous measurement of heat flow and mass variations with the STA versions of the instruments, or the identification of evolved gases by coupling the instruments with gas analyzers, or the measurement of dimensional changes with a TMA module.

While horizontal thermobalances lead to perturbations of the mass variations and temperature signals when the sample transforms, the vertical design benefits from good stability.

When combined with the hang-down principle, the sample can be hung to the balance using very thin suspensions. They minimize the drift of the mass variation signal with temperature, which is also known as buoyancy effect.

Finally, the dual furnace version of hang-down balances are designed to directly subtract this drift from the mass variation signal and reach the best stability and thus the highest measurement accuracy possible.





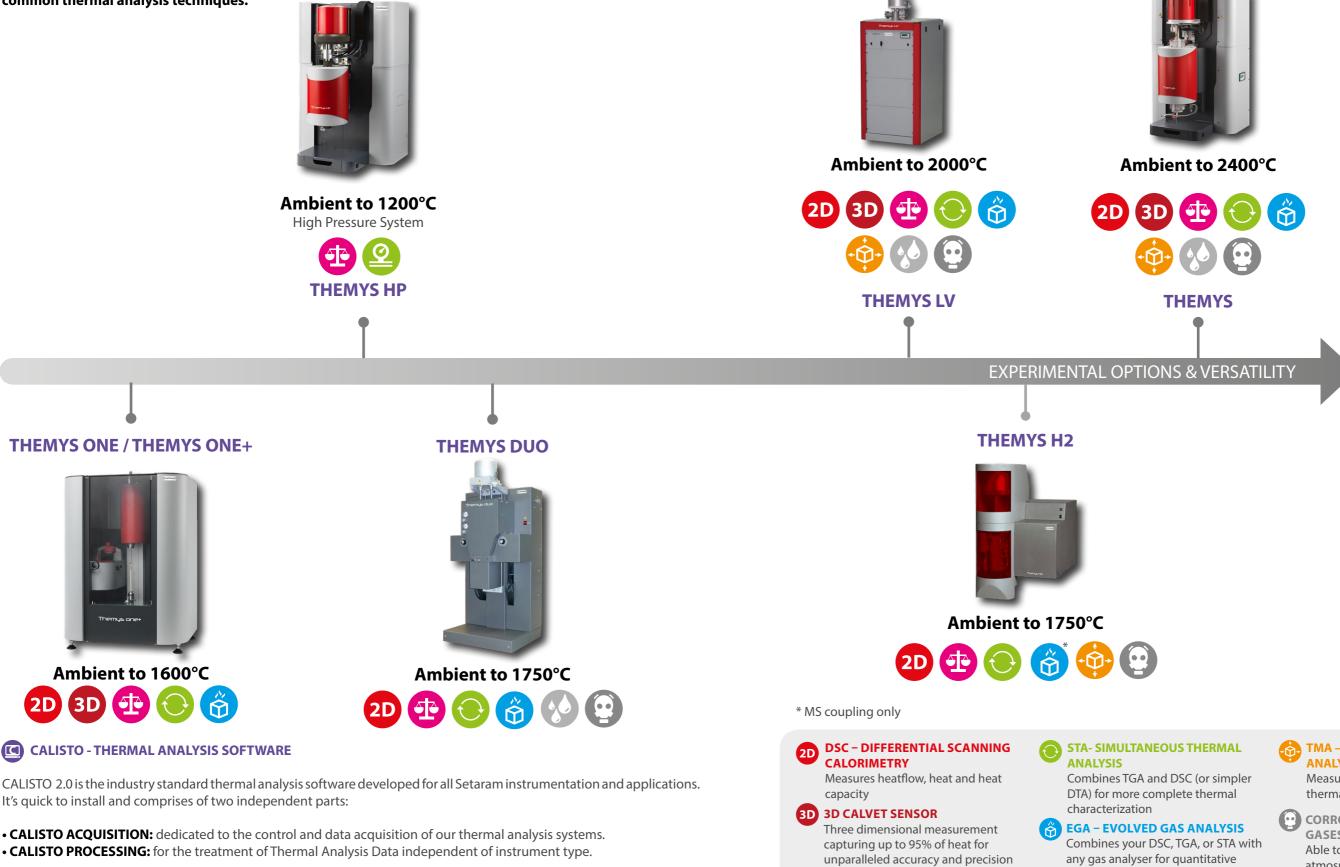
CUSTOMIZED SOLUTIONS

Modular design allows for upgraded and tailored functionality Access to all previous non-proprietary custom requests Open access to engineering development team



THEMYS LINE

Our range of instruments for the characterization of materials across wide temperature ranges and using all common thermal analysis techniques.



CALISTO software includes over 100 customer-requested features and promises to be the most powerful, flexible and intuitive data treatment software in thermal analysis.

See calisto-software.com for more information on the power of Calisto 2.0 software.

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ANALYSIS

HUMIDITY Measures mass loss and uptake, thermal stability, decompositions and solid-gas reactions

TGA – THERMOGRAVIMETRIC



PLUG-IN ACCESSORIES



FLEXIWET Humidity Control

Stand alone wet gas generator



Evolved gas

High pressure mass spectrometer

analysis using techniques such as FTIR, MS, GC-MS, FTIR/MS or FTIR/GC-MS

Can be coupled with the FLEXI WET or other relative humidity accessories

TMA – THERMO MECHANICAL ANALYSIS Measures dimension changes,

thermal expansion, densification

CORROSIVE AND REACTIVE GASES Able to run in various aggressive atmospheres



Operates under high pressure

THEMYS



ULTRA-HIGH TEMPERATURE CAPABILITY to 2400°C with a single furnace

VARIETY OF ATMOSPHERE CONDITIONS multiple carrier and reactive gas options

HIGH ACCURACY & VERSATILE

hang-down symmetrical beam balance specifically designed for TGA applications

 ACCURATE AND SENSITIVE tri-couple DTA technology

MODULAR ADAPTATIONS

up to 2400 °C: TGA, DTA, TG-DTA, TMA up to 1600 °C: DSC, TG-DSC

EXTERNAL COUPLING CAPABILITY

with evolved gas analyzers (FTIR, MS, GCMS, MSFTIR, or FTIR-GCMS)

Temperature range (°C) Ambient to 2400 O Programmable heating rate (°C/min) 0.01 to 100 0.01 to 100 30 to 300 µl 80 to 300 µl 60 to 300 µl 1 carrier gas flow among 3 connected + 1 pure OR blended auxiliary gas frow µl to 3 connected ones, 4 MFC 1 car	, TG-DSC ent to 1600 to 100 μl					
Programmable heating rate (°C/min) 0.01 to 100 0.01 to 100 Crucible volumes and maximum sample size 55 to 2 500 µl or Height: 20 Diam: 14 mm without crucible 30 to 300 µl 80 to 300 µl PureGas option 1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC) GasBlend option 1 carrier gas flow among 3 connected + 1 auxiliary gas flow, 2 MFC Gas flow MultiGasBlend option 1 carrier gas flow among 3 connected + 1 pure OR blended auxiliary gas from up to 3 connected ones, 4 MFC	to 100 μl					
Crucible volumes and maximum sample size 55 to 2 500 µl or Height: 20 Diam: 14 mm without crucible 30 to 300 µl 80 to 300 µl PureGas option 1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC) Gas flow MultiGasBlend option 1 carrier gas flow among 3 connected + 1 pure OR blended auxiliary gas from up to 3 connected ones, 4 MFC						
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1 carrier gas flow among 3 connected 1 Mass Flow Controller (MFC) + 1 corrosive gas lin	of the 5					
Corrosive gases option mass flow control	1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC) + 1 corrosive gas line without mass flow control					
VacuumPrimary (< 1 mbar), forced primary (< 5.10 ⁻² mbar), secondary vacuum options	Primary (< 1 mbar), forced primary (< 5.10^{-2} mbar), secondary vacuum options					
BALANCE HIGH HIGH HIGH SENSITIVITY VERSATILITY CAPACITY						
Small +/- 5 +/- 200 +/- 300						
Measuring range (mg) Large +/- 50 +/- 2 000, AUTO-TARE +/- 3 000						
Maximum loading capacity (g) 35 35 100						
TGA baseline drift (temperature scanning) ^{b,c} 30 μg up to 1000 °C 35 μg up to 1000 °C < 100 μg up to						
TGA baseline drift precision (μg)°+/- 3+/- 10-						
Balance resolution (small range) (μg)0.000590.0230.03						
DTA/DSC DTA, TG-DTA DSC	, TG-DSC					
Calorimetric precision (%) c.e+/- 2 %f+	-/-1%					
Temperature precision (°C) ^{c, e} +/- 0.8 °C +/-						

b. Under helium flow; c. Typical data; d. Pressure dependent; e. Based on metal standard melting; f. If calibrated

Various atmosphere control options:

• Gas flow options with smart software control for sequentially changing the gas types, flowrates, or blend ratios during the test or sample pretreatment Vacuum operations or pretreatment options • Corrosive gases with accessories to test samples' reactivity whilst protecting the thermal analyzer

One single graphite furnace with multiple configurations, and the lowest operational costs on the market

TGA, DTA, DSC accessories: Ceramic or metal crucibles from 30 µl to 2.5 ml •TGA suspensions or rods Easyfit rods with DTA and DSC sensors up to 2400 and 1600 °C respectively • Unique tricouple and protected tricouple rods

Temperature control with a selection of high sensitivity thermocouples to cover changing temperature range need, with an easier than ever TWIST AND LOCK connection system

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Evolved Gas Analysis through heated (300 °C) transfer line & extra coupling possible with 4-port connections

Three balance models available: • HIGH SENSITIVITY for the accurate study of small mass variations • HIGH CAPACITY for large samples • HIGH VERSATILITY with the AUTO-TARE system to benefit both from the THEMYS modularity and ease of use

Cross section of the THEMYS STA module

REIMAGINE MATERIAL CHARACTERIZATION

THEMYS (continued)



ULTRA-HIGH TEMPERATURE CAPABILITY to 2400°C with a single furnace

VARIETY OF ATMOSPHERE CONDITIONS multiple carrier and reactive gas options

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

 ACCURATE AND SENSITIVE tri-couple DTA technology

MODULAR ADAPTATIONS up to 2400 °C: TGA, DTA, TG-DTA, TMA up to 1600 °C: DSC, TG-DSC

EXTERNAL COUPLING CAPABILITY with evolved gas analyzers (FTIR, MS, GCMS, MSFTIR, or FTIR-GCMS)

	GENERAL	TMA version		
Temperature range (°C)		Ambient to 2400		
Programmable heating rate (°C/min)		0.01 to 100		
Maximum sample size (mm)		Height : 20 Diam : 10		
	PureGas option	1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC)		
Gas flow	GasBlend option	1 carrier gas flow among 3 connected + 1 auxiliary gas flow, 2 MFC		
Guy now	MultiGasBlend option	1 carrier gas flow among 3 connected + 1 pure OR blended auxiliary gas from up to 3 of the 5 connected ones, 4 MFC		
Vacuum		Primary (< 1 mbar), forced primary (< 5.10 ⁻² mbar), secondary vacuum options		
	ТМА			
Resolutio	n (nm)	0.2		
Measuring range (mm)		+/- 2		

Various atmosphere control options: • Gas flow options with smart software control for sequentially changing the gas types, flowrates, or blend ratios during the test or sample pretreatment Vacuum operations or pretreatment options • Corrosive gases with accessories to test samples' reactivity while protecting the thermal analyzer • Specific H, management option for safe operations

> One single graphite furnace with multiple configurations, and the lowest operational costs on the market

Temperature control with a selection of high sensitivity thermocouples to cover changing temperature range needs, with an easier than ever TWIST AND LOCK connection system

> **Evolved Gas Analysis** through heated (300°C) transfer line & extra coupling possible with 4-port connections.

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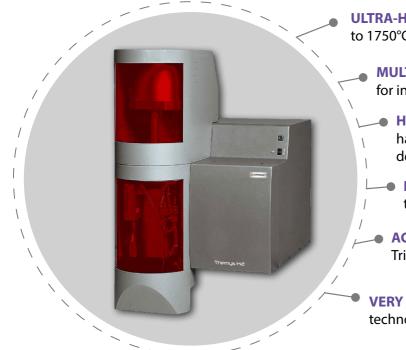
The vertical TMA module that can be optionally installed on THEMYS instruments allows for the PRESERVATION OF SAMPLES due to the possible application of low loads. The module includes an electromagnetic suspension system and a LVDT Probe displacement transducer

Probes and sample holders

made of silica, alumina or graphite for Compression Penetration Bending Traction Volume expansion

Cross section of the THEMYS TMA module

THEMYS H2



ULTRA-HIGH TEMPERATURE CAPABILITY to 1750°C with a single furnace

MULTIPLE BUILT-IN SAFETY SYSTEMS for instrument and user's secured operations

HIGH ACCURACY & VERSATILE

hang-down symmetrical beam balance specifically designed for TGA applications

EXTERNAL COUPLING CAPABILITY to 1000 °C with Mass Spectrometers

ACCURATE AND SENSITIVE Tri- Couple DTA and DSC technologies up to 1000°C

VERY HIGH TEMPERATURE DTA technology up to 1750°C

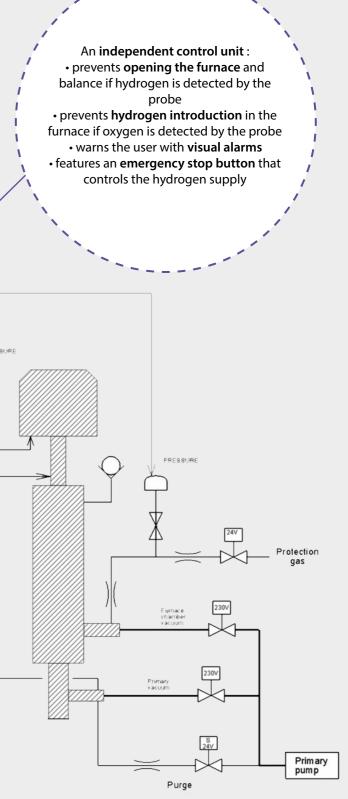
GENERAL	DTA DSC		TGA	ТМА	
Temperature range (°C)	Ambient to 1 750	Ambient to 1 000	Ambient to 1750	Ambient to 1750	
Programmable heating rate (°C/min)	0.01 to 100				
Crucibles volumes or maximum sample size	30 to 300 μl 80 to 100 μl		55 to 2 500 μl or Height: 20 Diam: 14mm without crucible	Height : 20 mm Diam : 10 mm	
Gas flow	1 carrier gas flow among 3 connected including a specific H2 line + 1 auxiliary gas flow, 2 MFC, safety system including O2 and H2 detectors				
Vacuum	Forced primary (< 5.10-2 mbar), hydrogen resistant vacuum pump				
MEASUREMENTS	DTA	DSC	TGA	ТМА	
MEASUREMENTS Measuring range	DTA	DSC	TGA +/- 20 mg +/- 200 mg	TMA +/- 2 mm	
	DTA	DSC 35 g	+/- 20 mg		
Measuring range Maximum loading	DTA 0.4μW		+/- 20 mg		
Measuring range Maximum loading capacity		35 g	+/- 20 mg +/- 200 mg 0.002 μg	+/- 2 mm	

^aµV=microvolts, values in mW depend on the type of rod used; ^bbased on metal standard melting; ^cif calibrated; ^dbased on standard material decomposition; ^ebased on thermal expansion measurement of sapphire standard.

A hydrogen probe and an oxygen probe are placed at the instrument's outlet to detect the presence of these gases in the exhaust gases. Control board PRESSURE Carrier gas 1 ∇ MFC Carrier gas 2 Carrier gas 3 Hydrogen MFC Aux. a 14V O2 Sensor Outlet H₂ Sensor

Additional safety features • The furnace cannot be opened when under vacuum, or when its temperature exceeds 70°C • Heating is stopped if at full power for more than one minute or if the control thermocouple fails

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Schematics of THEMYS H2

THEMYS ONE THEMYS ONE+



GENERAL

HIGH TEMPERATURE CAPABILITY

with the convenience of ONE FURNACE to reach temperatures as high as 1150 or 1600 $^\circ\mathrm{C}$

HIGH SENSITIVITY BALANCE FOR THE DETECTION OF SMALL MASS VARIATIONS

specifically designed for TGA analysis

PLUG AND PLAY INTERCHANGEABLE RODS

to perform TGA, TG-DSC, TG-DTA, and 3D high sensitivity calorimetry / Cp measurements

• EXTERNAL COUPLING CAPABILITY

evolved gas analyzers (FTIR, MS, GC/MS, MS-FTIR,or FTIR-GC/MS)

STA

DTA/DSC

32 POSITION AUTOSAMPLER

on the THEMYS ONE+ version

The Autosampler of THEMYS ONE+ is equipped with a 32 position carrousel for samples and references.

The 3-pin gripper automatically configures to the different sensors and crucibles to give you the most user-friendly system available.

> Coiled metal furnace existing in two distinct temperature ranges (1 150 °C and 1 600 °C). It has been designed to provide a homogeneous temperature zone covering both the sample crucible and the measurement rod area

1	TGA, DTA, DSC
/ •Ce	ramic or metal
í i	µl to
• Eas	yfit TGA, DTA, a
	1150 or
• 3D C	, rod using mul
surro	ounding large c
`, m	ore accurate hi
	calorimetry m

Ambient to 1 150 Temperature range (°C) Ambient to 1 600 Programmable heating and cooling rate (°C/min) 0.01 to 100 30 min (1 150 to 50°C) **Furnace cooling** 32 min (1 600 to 50°C) Base: two gas inlets (inert or reactive) Option: selection from 3 different carrier gases (controlled Gas flow flow up to 200 ml/min), mixing of one of these carrier gases with another «auxiliary » gas (controlled flow up to 16 ml/min) < 10⁻¹ mbar. Option for operations under controlled vacuum Vacuum down to 30 mbar. Weight 60 kg / 132 lbs 700 / 500 / 440 mm **Dimensions (Height / Width / Depth)** (27.6 / 19.7 / 17.3 in) BALANCE Maximum balance capacity (g) 20 +/- 1 000; +/- 200 Weight range (mg) Balance resolution (small range) (µg) 0.02 DTA/DSC DSC rod – resolution (µW) 0.4 / 10 dependent on sensor 3D Cp rod – Cp accuracy down to within 2 %^a

TGA

a. Value depends on tested material type

Top-loading balance based on the same principle as the other symmetrical beam balance models, and temperature controlled for an improved stability

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Various atmosphere control options: • Gas flow (inert or reactive) circuit • Option: fully automated gas control panel with two mass flow controllers • Vacuum

REIMAGINE MATERIAL CHARACTERIZATION

Optional Evolved Gas Analysis coupling tool heated up to 300°C to avoid condensation of most gases and vapors and with two gas outlets for triple coupling (like TG-MS-FTIR)

C accessories:

I crucibles from 80 1 ml and DSC rods up to 1600 °C Itiple thermocouples crucibles (380 µl) for heasurements

Cross sections of the THEMYS ONE

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THEMYS DUO



ULTRA-HIGH TEMPERATURE CAPABILITY

to 1750 °C with the same dual furnace

HIGHEST ACCURACY WITH ITS HANG-DOWN SYMMETRICAL BEAM BALANCE

eliminate drift & buoyancy effect, improve gas/sample interaction

MODULAR ADAPTATIONS ALLOWING

- up to 1750 °C: TGA, DTA, TG-DTA up to 1600 °C: DSC, TG-DSC
- ACCURATE AND SENSITIVE Tri-couple DTA technology

VARIETY OF ATMOSPHERE CONDITIONS

multiple carrier and reactive gas options

EXTERNAL COUPLING CAPABILITY

designed for evolved gas analyzers (FTIR, MS, GCMS, MSFTIR, or FTIR-GCMS)

GENERAL		TGA	STA			
			DTA, TG-DTA	DSC, TG-DSC		
Temperature range (°C)		Ambient to 1750	Ambient to 1750	Ambient to 1600		
Programmable heating rate (°C/min)			0.01 to 100			
Crucibles volumes and maximum sample size		55 to 1 500 μl or Height: 20 Diam: 14 mm without crucible	20 to 300 µl	75 to 110 µl		
PureGas option		1 carrier gas flow among 3 connected, 1 Mass Flow Controller (MFC)				
Gas flow	Gas flow Corrosive gases option		1 carrier gas flow among 3 conn	ected + 1 auxiliary g	as flow, 2 MFC	
			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) options			
Weight			145 kg / 320 lbs			
Dimensions (Height / Width / Depth)		170 / 60 / 55 cm (66.9 / 23.6 / 21.6 in)				
	BALANCE					
Measuring range (mg)		Small	+/- 20			
measuring	range (mg)	Large	+/- 200			
Maximum	loading capacity (g)		35			
TGA baseline drift (temperature scanning) ^{b,c}		5 μg up to 1700 °C				
TGA baseli	ne drift precision (μg) ^c	+/- 1			
Balance resolution (small range) (µg)			0.002			
	DTA/DSC			DTA, TG-DTA	DSC, TG-DSC	
Calorimetr	ric precision ^{c, e}			+/- 2 % ^f	+/- 1 %	
Temperatu	ire precision ^{c, e}		-	+/- 0.8 °C	+/- 0.4 °C	
Temperature accuracy ^{c, e}				+/- 0.4 °C	+/- 0.25 °C	

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

THEMYS DUO's hang-down Symmetrical Beam Balance continuously measures the mass difference between a sample and an inert reference material, both placed under the exact same temperature and atmosphere conditions in two distinct but identical heating zones.

It leads to near-zero drift or buoyancy effect, and thus performs the best long term stability studies.

The hang-down principle of the system improves the gas/sample interaction with the maximum exposure of sample to gas environment.

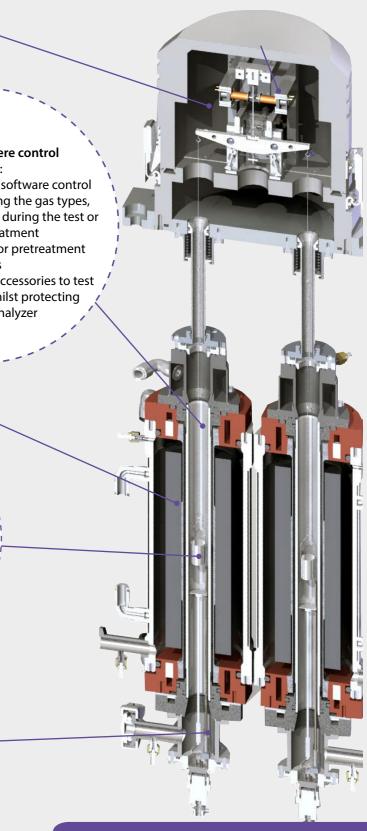
> Various atmosphere control options: • Gas flow options with software control for sequentially changing the gas types, flowrates, or blend ratios during the test or sample pretreatment • Vacuum operations or pretreatment options Corrosive gases with accessories to test samples' reactivity whilst protecting the thermal analyzer

The dual furnace of THEMYS DUO is composed of two identical graphite heating elements and alumina protective tubes, to perfectly adjust the experimental conditions of the sample and of the inert reference material

> TGA, DTA, DSC accessories: Ceramic or metal crucibles from 20µl to 1.5ml TGA suspensions or rods Rods with DTA and DSC sensors up to 1750 and 1600°C respectively • Unique tricouple DTA rods

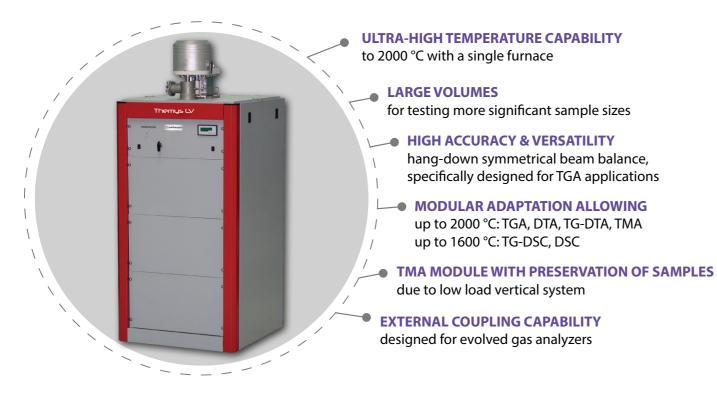
Temperature control with a selection of high sensitivity thermocouples to cover changing temperature range needs

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Cross section of the THEMYS DUO

THEMYS LV



GENERAL		TGA	STA		тма	
			DTA, TG-DTA	DSC, TG-DSC	THUX.	
Temperature range (°C)		Ambient to 2000	Ambient to 2000	Ambient to 1600	Ambient to 2000	
Programma	ble heating rat	te (°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) Large		Small	+/- 200			
		+/- 2 000				
Maximum l	oading capaci	ty (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	
Temperatu	re precision (°C	2) ^{c, e}		+/-	2	
Temperatu	Temperature accuracy (°C) ^{c, e}			+/-	1	
	ТМА					
Resolution	(nm)					1.6
Measuring range (mm)						+/- б

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

Various atmosphere control options • Gas flow options with software control for sequentially changing the gas types, flowrates, or blend ratios during the test or sample pretreatment Vacuum operations or pretreatment options Corrosive gases with accessories to test samples' reactivity while protecting the thermal analyzer

> THEMYS LV furnace is amongst the largest on the thermal analyzers market. It can test samples as large as 20 mm diameter and 80 mm height while limiting the thermal gradient and thus preserving the measurement accuracy.

This single graphite furnace combined with multiple configurations provides various test conditions and thermal data.

TGA, DTA, DSC accessories: Ceramic or metal crucibles from 220 µl to 18.1ml •TGA suspensions or rods rods with DTA and DSC sensors up to 2000 and 1600 °C respectively.

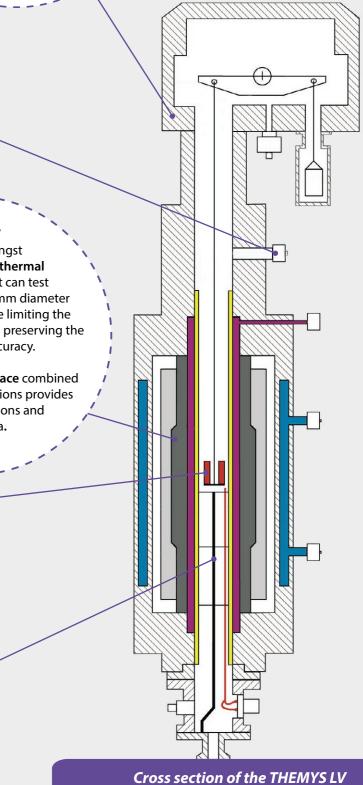
> Temperature control with a selection of high sensitivity thermocouples to cover changing temperature range

needs

By design, the hang-down balance of THEMYS LV is robust and adapted to heavier samples with larger mass variations.

As with THEMYS, the THEMYS LV balance module can be exchanged with a vertical TMA module for thermal expansion measurements.

The hang-down principle of the system improves the gas/sample interaction with the maximum exposure of sample to gas environment.



REIMAGINE MATERIAL CHARACTERIZATION

THEMYS HP



HIGH TEMPERATURE AND HIGH PRESSURE CAPABILITY

up to 1200 °C and 150 bar with a single furnace, to replicate real process conditions

HIGH ACCURACY & VERSATILITY

hang-down symmetrical beam balance, specifically designed for TGA applications

- continuously measures sample mass variations •
- drastically limits the TGA signal background noise and reduces drift
- improves gas/sample interaction

BUILT-IN SAFETY

compliant with European Pressure Equipment Directive 2014/68/EU - group 2 gases (nonexplosive, non-flammable, non-toxic)

	GE	NERAL		
Temperature range (°C)			Ambient to 1200	
Programmable heating rate (°C/min)			0.01 to 100ª	
Crucibles volumes and maximum sample size			1300 μl	
Single gas fl Gas flow		w option	1 carrier gas flow controlled by 1 Mass Flow Control ler (MFC)	
Gas now	Advanced gas	panel option	1 carrier gas flow among 3 connected + 1 auxiliary gas flow, 2 MFC	
Vacuum			Primary (< 1 mbar), forced primary (< 5.10 ⁻² mbar)	
	BA	LANCE		
Measuring range (mg) Large		Small	+/- 200	
		Large	+/- 2000	
Maximum loading capacity (g)			35	
TGA baseline drift precision (µg)°			+/- 200	
Balance resolution (small range) (μg)			0.0023	

a. Value at Patm, may vary according to pressure; c. Typical data

The sample temperature is controlled by a platinum based heating element protected by an alumina tube.

The same furnace and balance cover a temperature and pressure range up to 1200 °C and 150 bar. It avoids multiple furnace changes for different samples or test conditions.

> Temperature control with a high sensitivity thermocouple placed below the sample holder

User and instrument safety systems are built into THEMYS HP. This includes: Safety systems to avoid large pressure differences between inside and outside of the furnace Four safety valves at different locations of the gas circuit • The prevention of furnace opening when pressure is above 1.2 bar

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The system is equipped with a dual back pressure regulating device for **accurate** control of the test pressure during both low (1 to 6 bar) and high pressure (6 to 150 bar) operations

The THEMYS HP balance is a specific, pressure-rated model. It is designed based on the hang-down symmetrical beam balance principle for the best mass signal accuracy and stability.

Cross section of the THEMYS HP



Switzerland – France – China – United States – India – Hong Kong For contact details: <u>www.setaramsolutions.com</u> or <u>setaram@kep-technologies.com</u>