TAS 8 .TAS 16 .TAS 24
TAS 48 .TAS 96
Temperature Acquisition Systems

The five TAS systems provide powerful tools which enable the user to analyse every aspect of a thermal cyclers performance. Quick release precision temperature sensors can easily be repositioned to inspect any combination of the 96 wells. This flexibility allows users to validate general thermal cycler performance, check a temperature gradient or conduct analysis of an individual block area.

There is no longer any dependence upon thermal cycler manufacturers for these procedures. Built in intelligence ensures that TAS always operates to meet or exceed the regulated standards

Features

- Supplier independent thermal cycler performance testing
- On site monitoring of any brand of thermal cycler at no cost per test
- Full life cycle analysis
- Rapid protocol transfer between instruments
- NIST traceable calibration to ITS90
- Up to 96 precision temperature sensors
- Flexible sensor positioning
- 96 standard microplate well locations
- Stand alone or PC operation
- GLP records

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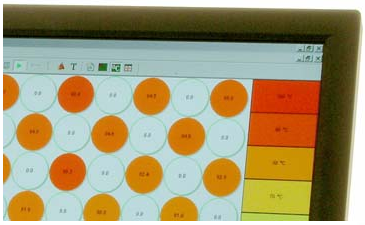
Temperature Acquisition System

Gene expression analysis continues to demand better analysis equipment with lower variability. Quanta Biotech was established in 2001 to innovate in the functional genomics area. Our ground breaking TAS range of multi-channel systems of thermal cycler validation helps to ensure optimal thermal cycler performance in this previously unregulated area.
All TAS systems are manufactured at our Headquarters in London, England, and are available internationally through Quanta Biotech's global distribution network.



PC Software
TAS can be connected to a PC to access the extensive range of capture and manipulation in its accompanying PC software.
The key features include:

- Real time graphical display for all sensors
- Automatic GLP log with date/time stamping
- Probe position identification and record
- Zooming and panning function
- Test overlay to monitor thermal cycler drift
- File export in spreadsheet format

These features allow users to fully analyse, monitor and store every aspect of a thermal cycler's performance, allowing lifetime tracking and detailed comparisons with other thermal cyclers to ensure optimal PCR performance throughout the laboratory.

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8 . 16 . 24 . 48 . 96 TAS

Probe
Each sensor has its own unique identity ensuring the total elimination of sensor mix up and the use of correct calibration parameters at every test. There is no possibility of using out of calibration sensors without warning and sensors can easily be detached and returned for calibration.

Separate reference sensors are available to allow immediate on site verification of the TAS unit's own performance. Used in conjunction with two sets of sensors this allows uninterrupted NIST traceable TAS operation with no recalibration downtime.e

Stand alone option
TAS can also be used in stand alone mode for several hours, powered by its onboard rechargeable battery. In addition to proving key statistical data on its integral display, a data log is generated which can subsequently be uploaded to PC

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Ordering Information

TAS Control Module	7007001	Up to 8 probes
	7007002	Up to 16 probes
	7007003	Up to 24 probes
	7007004	Up to 48 probes
	7007005	Up to 96 probes
TAS Systems	7006001	TAS 8 thermal cycler validation system including 8 sensors and PC software
	7006002	TAS 16 thermal cycler validation system including 16 sensors and PC software
	7006003	TAS 24 thermal cycler validation system including 24 sensors and PC software
	7006004	TAS 48 thermal cycler validation system including 48 sensors and PC software
	7006005	TAS 96 thermal cycler validation system including 96 sensors and PC software
Temperature Sensors	7009001	Single probe
	7009002	8 probe pack
	7009003	16 probe pack
	7009004	24 probe pack
	7009005	48 probe pack
	7009006	96 probe pack
	7009007	TAS extra long probe on 0.75m lead
	7009008	TAS Bare thermistor probe, for fluid measurements in sample tubes
	7009009	Temperature reference sensor
PCQB PC software	7008001	Windows 200, Windows NT, Windows XP PC compatible computer with Pentium microprocessor, 256 RAM required. At least 1024 x 768 x 24 bit graphics display

TAS Specification

Temperature range	4 to 99°C
Sampling rate	0.1s to 1 hour
Dimensions	135 x 95 x 40
Weight	400g
PC connection	USB
Power	Lithium ion battery
Temperature Sensor Specifications	
Accuracy PC mode	+/- 0.1°C
Response time	200ms
Temperature range	4 to 99°C
Well compatibility	0.2/0.5ml
Temperature Reference Sensor	
Temperature reference	25°C ± 0.1°C

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