



## **TAS8 . TAS16 . TAS24**

*Temperature Acquisition System*



The three TAS systems provide powerful tools which enable the user to analyse every aspect of a thermal cycler's 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 detailed 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.

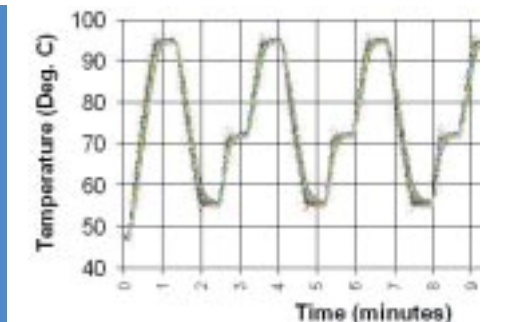
### **Features**

- **Supplier independent thermal cycler performance testing**
- **On site monitoring of any brand thermal cycler at no cost per test**
- **Full life cycle analysis**
- **Rapid protocol transfer between instruments**
- **NIST traceable calibration to ITS90**
- **Up to 24 precision temperature sensors**
- **Flexible sensor positioning**
- **96 standard microplate well locations**
- **Stand alone/pc operation**
- **GLP records**

# 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 arena. Our ground breaking TAS range of multichannel systems for 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 tools 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 life time tracking and detailed comparisons with other thermal cyclers to ensure optimal PCR performance throughout the laboratory.

# TAS 8.16.24



## Probe

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

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 down time.



## Stand Alone Option

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



**TAS Control Module**

Catalogue No.	Max No. of Probes
TAS8	8
TAS16	16
TAS24	24

**Specifications TAS8, TAS16, TAS24**

Temperature Range	4 to 99
Sampling Rate	0.1s to 1 hr
Dimensions	135mm x 95mm x 40mm
Weight	400g
Battery	Lithium Ion
PC Connection	USB

**TAS PC Software**

Catalogue No.	TASPC01
System Requirements	Windows 2000, Windows NT, Windows XP PC compatible computer with a Pentium micro-processor, at least 256mb RAM. High resolution graphics display (at least 1024 x 768 x 24bits)

**TAS Temperature Sensor**

Catalogue No.	Pack Size
TS020501	1
TS020508	8
TS020516	16
TS020524	24

**Specifications TAS8, TAS16, TAS24**

Accuracy (PC Mode)	±0.1°C
Response Time	200ms
Temperature Range	4-99°C
Well Compatibility	0.2/0.5ml

**TAS Reference Sensor**

Catalogue No.	TR020525
Temperature Reference	25°C ±0.1

**QuantaBiotech Ltd**  
Systems for Quantitative Biology

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