

Q-TAS System

Description

The TAS-System is a powerful tool enabling the analysis of a thermal cycler's temperature performance. Key components include a control module with integrated real-time display, probe plates that accommodate either fixed or variable probes, and powerful PC software.

All TAS-Systems include a high-precision control module which can be run in either standalone or computer-driven mode. In standalone mode the control module draws its power from its own integrated rechargeable battery, its LCD displaying real-time temperatures, scanning through all connected probes or indicating statistical data. When connected to a computer running the TAS-Software the true power of the TAS-System can be utilised: a full graphical temperature display, detailed statistical feedback, automatic analysis of temperature performance and automatic report/certificate generation.

TAS-Software

Provides all the information required for the full validation of thermal cycler temperature performance. View temperature performance in real-time on a classical line graph or on the novel plate view graphical display. When using one of the embedded test protocols the TAS-Software automatically analyses the trace for you, providing a wealth of statistical data across a range of temperatures, including accuracy, uniformity, overshoot and ramp rate. Available instantly upon completion of the test, this statistical data takes the form of a "Certificate of Test" and can be printed out for reference or stored or transmitted electronically in PDF.

The TAS-Probes

TAS-Systems can be supplied with a choice of plate type: fixed or variable.

The fixed probe plate offers a quality control tool for standard 96-well thermal cyclers. The probes are permanently fixed in position, simply place the plate onto the cycler for rapid analysis.

The variable plate offers a unique level of flexibility. As the probes are interchangeable they can be positioned as required to tackle a specific requirement, for example detailed thermal gradient analysis or perhaps the targeting of a specific area of the block that is giving atypical performance. Non-standard block/well formats are also catered for as leaded probes can also be attached to the variable plate.

All probes carry their own unique identity which is automatically recognized by the software ensuring integrity of temperature data from one test to the next, whatever the probe positioning may be. Further assurance is provided through the use of separate precision reference probes which are available to allow immediate on site verification of the TAS-Controller's own performance.

