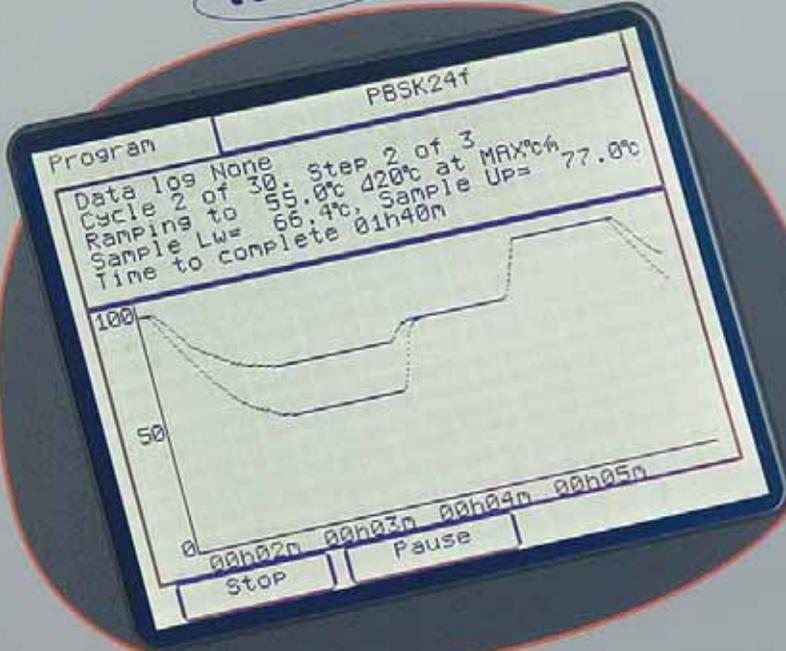




TC-512 Thermal Cycler

Industry Leading Warranty...
4 years or 80,000 cycles



TC-512

TECHNE

TC512 Thermal Cycler

The **TC-512** has a graphical Touch Screen display which enables you to optimize your experiments at the **“touch of a screen.”**



Wide linear gradient:

The only Gradient Thermal Cycler on the market to offer quad circuit technology which results in the most linear gradient on the market, with an amazing range of 30°C. Protocols can be optimized in a single experiment.

Touch Screen:

The TC-512 incorporates a large, 115 x 90mm, touch-sensitive screen that provides a unique user-friendly programming interface which is second to none.

Graphical display:

The unique ‘real-time’ graphical display shows the sample temperature profile while the program is running, including the upper and lower limits of the gradient. This pictorial, real-time representation means instant visualization of your experiment’s status.

Memory cards:

Smart Media memory cards provide an alternative to internal memory storage of your programs, offering security and flexibility.

Gradient calculator:

The gradient calculator function displays the temperature of each column. This ensures replication of the experimental conditions.

High performance:

Each block consists of 8 peltier units, controlled by 4 independent temperature thermistors (control sensors) distributed evenly across the block. This ensures that the TC-512 exhibits the most accurately controlled linear gradient available*.

4-Fold control:

A maximum heating rate of 3°C/Sec and block uniformity of $<\pm 0.4^{\circ}\text{C}$. With or without a gradient.....no compromise!

Versatile block format:

The truly user-friendly interchangeable block system allows blocks to be interchanged in a matter of seconds without the need of any tools (60 x 0.5ml 96 x 0.2 ml, 3841 well, Insitu Block2).

Technical Specification

Blocks Formats	
0.5ml capacity	60
0.2ml capacity	96
384-well block	Yes
Gradient block	0.5mL, 0.2 mL, 384
In-situ block	Yes
User interchangeable	Yes
Block Temperature	
Gradient range	20°C to 70°C
Maximum gradient	30°C (16°C for 384 block)
Maximum ramp rate*	3.0°C/sec
Block uniformity at 50°C*	$<\pm 0.3^{\circ}\text{C}$
Column uniformity with a 10°C	gradient $<\pm 0.3^{\circ}\text{C}$
Temperature range	4°C to 99°C
Temperature set point precision	0.1°C
Heated Lid	
Selectable heated lid temperature	100°C - 115°C
Heated lid enable/disable	Yes
Over temperature cut out	Yes
Regulated lid pressure	Yes
Heated lid only comes on if block is set above 35°C	
Programming	
Memory cards	Yes
Number of programs #	50 or 500 (with card)
Password protection	Yes
Programming	Touchscreen
Graphical display	Real-time graph
Incremental/decremental temperature	Yes
Incremental/decremental hold time	Yes
Maximum hold time	99 hrs
Minimum hold time	1 sec
Variable programmable ramp rate	0.1°C/sec steps
Run end time calculation	Yes
Pause and stop facility	Yes
End of program alarm (enable/disable)	Yes
Auto restart on power failure	Yes
Miscellaneous	
Serial port	RS232
Dual Voltage (120/230V)	Yes
Temperature sensor	Thermistor
Peltierelements/block	8
Dimensions L x W x H (mm)	420 x 220 x 260
Footprint L x W (mm)	420 x 220 (16.5" x 8.7" x 10")
Connection to PC control program	Yes
Free software upgrades from website	Yes
Power consumption	620 Watts
Frequency	50 - 60 Hz
Net weight	11kg (total)



Thank you for reading this data sheet.

For pricing or for further information, please contact us at our UK Office, using the details below.



UK Office

Keison Products,

P.O. Box 2124, Chelmsford, Essex, CM1 3UP, England.

Tel: +44 (0)330 088 0560

Fax: +44 (0)1245 808399

Email: sales@keison.co.uk

Please note - Product designs and specifications are subject to change without notice. The user is responsible for determining the suitability of this product.