96-Well Gradient PCR Thermal Cycler, 5°C/s Ramp, ±0.2°C Uniformity, 7-inch Touch Screen, Wi-Fi

Model **MSPCRTC-GPSWISS** | Brand **Master Science**









The Master Science 96-Well Gradient PCR Thermal Cycler runs PCR on 96 x 0.2 mL tubes, 12 eight-tube strips or a full 96-well plate, with a temperature gradient of 1-42°C across a 30-105°C setting range for fast annealing optimisation. Peltier elements with zone temperature control heat and cool at up to 5°C per second.

KEY HIGHLIGHTS

- Faster optimisation
- Uniform results
- Quick cycling
- Networked control

AT A GLANCE

0-105°C BLOCK TEMPERATURE RANGE	**30-115°C** HEATED LID RANGE
30-105°C GRADIENT SETTING RANGE	**±0.1°C** TEMPERATURE DISPLAY ACCURACY

Request a Quotation
Contact us for pricing, configuration options and delivery details.

support@themsci.com
www.themsci.com

Scan to view online

Overview

Block uniformity is ±0.2°C at 55°C and control accuracy is ±0.1°C. Programming takes place on a 7-inch, 1024 x 600 touch screen, and Wi-Fi, LAN and USB connections let one PC control several cyclers and store over 20,000 programs on a USB flash drive.

> For real-time detection, see our 96-Well Real-Time PCR qPCR System alongside the 96-Well Gradient PCR Thermal Cycler.

Key Benefits

Faster optimisation
A 1-42°C gradient tests many annealing temperatures in one run.

Uniform results
±0.2°C block uniformity for repeatable amplification.

Quick cycling
Up to 5°C/s heating and cooling.

Networked control
One PC can control several cyclers over LAN or Wi-Fi.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSPCRTC-GPSWISS
SKU	MSPCRTC-GPSWISS
Sample Capacity	**96 x 0.2 mL tubes; 12 x 0.2 mL 8-strips; 1 x 96-well 0.2 mL plate**
Block Temperature Range	**0-105°C**
Heated Lid Range	**30-115°C**
Temperature Control Accuracy	**±0.1°C**
Uniformity at 55°C	±0.2°C
General	Max. Heating/Cooling Rate: 5°C/s
Gradient Setting Range	**30-105°C**
Gradient Span	1-42°C (enter 0 to switch off)
Block Material	Aluminium
Communication	USB, Wi-Fi
Program Structure	Up to 30 steps and 99 cycles per program

DISPLAY & DATA	
Temperature Display Accuracy	**±0.1°C**
Display	7-inch LCD, 1024 x 600, touch panel
Program Storage	20,000+ (USB flash drive)

POWER	
Power-Off Protection	Yes
Power Supply	100-120 V / 200-240 V, 50/60 Hz, 600 W

DIMENSIONS & WEIGHT	
Dimensions (D x W x H)	296 x 370 x 295 mm
Weight	9.5 kg

COMMON PCR SET-UP PROBLEMS IT SOLVES	
Finding the right annealing temperature	Gradient across the block in one run.
Edge wells behave differently	±0.2°C uniformity at 55°C.
Long run times	5°C/s maximum ramp rate.
Programs scattered across instruments	Central PC control and USB program storage.

Applications

The 96-Well Gradient PCR Thermal Cycler is used for
Routine PCR amplification Annealing temperature optimisation Molecular biology and genetics research Clinical and diagnostic laboratories Teaching laboratories

Thermal System

- Long-life Peltier elements
- Zone temperature control
- Block design for uniform temperature
- Heated lid up to 115°C

Software and Control

- 7-inch colour touch panel
- Up to 30 steps and 99 cycles per program
- Power-off protection
- Software updates via USB or LAN

Connectivity

- Built-in Wi-Fi module
- LAN control of multiple instruments from one PC
- USB data save and recall