Dual-Block Gradient PCR Thermal Cycler, 2 x 48 Wells, 6°C/s Ramp, 4 Zones, 8-inch Touch Screen

Model **MSPCR-482SWISS** | Brand **Master Science**





The Master Science Dual-Block Gradient PCR Thermal Cycler has two independently controlled 48 x 0.2 mL blocks, so two different PCR programs can run at the same time. Eight long-life Peltier units form four temperature zones, allowing gradient runs on both blocks with a 0.1-30°C spread across a 30-105°C range.

KEY HIGHLIGHTS

- Two runs at once
- Fast cycling
- Protects samples
- Traceable data

AT A GLANCE

0-105°C TEMPERATURE RANGE	**30-105°C** GRADIENT RANGE
≤ ±0.1°C TEMPERATURE ACCURACY	**2 x 48 x 0.2 mL** CAPACITY

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

Ramp rates reach 6°C per second and are adjustable down to 0.01°C/s, with ±0.2°C uniformity and ±0.1°C accuracy. An 8-inch capacitive touch screen, 11 built-in program templates, stepless adjustable heated lid and Wi-Fi/LAN connectivity make daily set-up quick.

> For a single 96-well block, see our 96-Well Gradient PCR Thermal Cycler, an alternative to the Dual-Block Gradient PCR Thermal Cycler.

Key Benefits

Two runs at once
Independent blocks run two programs simultaneously.

Fast cycling
Up to 6°C/s ramping saves run time.

Protects samples
Stepless pressure-protected lid fits tubes of different heights and limits evaporation.

Traceable data
GLP reports and three-level user permissions with passwords.

Technical Specifications

GENERAL	
Brand	Master Science
Model Number	MSPCR-482SWISS
SKU	MSPCR-482SWISS
Capacity	**2 x 48 x 0.2 mL**
Tubes	0.1/0.2 mL tubes, 8-strips
Reaction Volume	5-120 µL
Temperature Range	**0-105°C**
General	Max. Ramp Rate: 6°C/s (adjustable 0.01-6°C/s)
Temperature Uniformity	≤ ±0.2°C
Temperature Accuracy	**≤ ±0.1°C**
Temperature Control	Block / tube mode
Gradient Range	**30-105°C**
Gradient Spread	0.1-30°C
Heated Lid	25-115°C, stepless height adjustment
General	Max. Steps / Cycles: 30 / 200
Time Increment	1-600 s
Temperature Increment	0.1-10°C
Functions	Pause, auto data protection, hold at 4°C, touchdown, long PCR
Communication	USB 2.0, LAN, Wi-Fi
Power	100-240 V AC, 50/60 Hz, 600 W

DISPLAY & DATA	
Display Resolution	0.1°C
Program Storage	200,000+ (expandable via USB)
Display	8-inch, 800 x 600 capacitive touch screen
Software	PC software and mobile app

DIMENSIONS & WEIGHT	
Dimensions (L x W x H)	390 x 270 x 255 mm
Package Dimensions	560 x 430 x 430 mm
Weight (Net / Gross)	9 / 12.7 kg

PCR BOTTLENECKS IT SOLVES	
Waiting for one cycler to finish	Two blocks run independent programs.
Evaporation from tubes	Pressure-protected, height-adjustable heated lid.
Lost runs after power cuts	Automatic resume when power returns.
Unclear run records	GLP reports log every step.

Applications

The Dual-Block Gradient PCR Thermal Cycler is used for

Running two PCR protocols at the same time
Annealing temperature optimisation Touchdown and long PCR Enzyme digestion and incubation steps
Molecular biology and diagnostic labs

Thermal System

- 8 Peltier units in 4 temperature zones
- Two independently controlled blocks
- Anodised reinforced aluminium blocks
- Heated lid with adjustable temperature and mode

Software

- 8-inch capacitive touch screen with graphical interface
- 11 built-in program templates
- Folder management and 200,000 program memory
- Live display of program and remaining time; editing while running
- One-click quick incubation for denaturation, enzyme digestion and ELISA

Connectivity and Safety

- Wi-Fi and LAN; one PC or mobile app controls several cyclers
- USB for data, software updates and mouse
- Email alert at the end of a run
- Automatic resume after power failure
- GLP report and three-tier user login