Portable Real-Time PCR - 4-Channel qPCR - 32 Wells, Dual 16-Well Blocks - Touch Screen

Model **MSPCR-Q32-4SWISS** | Brand **Master Science**







The Master Science Portable Real-Time PCR is a compact, light qPCR instrument with 32 wells split into two independent 16-well blocks, so two different programs can run at the same time. Four fluorescence channels and 1-copy sensitivity cover routine quantitative, qualitative, melting curve and genotyping work.

KEY HIGHLIGHTS

- Two runs at once
- Easy to move
- No PC needed
- Long Peltier life
- Clean signals

AT A GLANCE

0 to 100 °C, 0.1 °C resolution TEMPERATURE RANGE	**1 to 10^{10} copies** DYNAMIC RANGE
±0.1 °C / ±0.25 °C / ±0.25 °C FLUCTUATION / UNIFORMITY / ACCURACY	**32 × 0.2 mL (4 × 8 wells, dual block)** SAMPLE CAPACITY

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

support@themsci.com
www.themsci.com

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Overview

A 7-inch touch screen with embedded Windows analysis software completes analysis and reports without a computer, and 32 bundled optical fibres collect fluorescence from the side for strong, clean signals.

Key Benefits

Two runs at once
the Master Science Portable Real-Time PCR has dual independent blocks.

Easy to move
8 kg and compact.

No PC needed
built-in analysis and reports.

Long Peltier life
constant-current drive and protection functions.

Clean signals
black block and side-collected fluorescence.

For 96-well throughput, see the Master Science 6-channel real-time PCR system.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSPCR-Q32-4SWISS
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SKU	MSPCR-Q32-4SWISS
Sample Capacity	**32 × 0.2 mL (4 × 8 wells, dual block)**
Consumables	Clear 0.2 mL PCR tubes or 8-tube strips
Reaction Volume	15 to 100 µL
Thermal Module	Custom Peltier rated for 1,000,000 cycles
Temperature Range	**0 to 100 °C, 0.1 °C resolution**
Maximum Ramp Rate	5 °C/s
Fluctuation / Uniformity / Accuracy	**±0.1 °C / ±0.25 °C / ±0.25 °C**
Hot Lid	30 to 115 °C (105 °C default), electromagnetic lock
Detection Channels	4
Excitation / Detection	300 to 800 nm / 500 to 800 nm
Calibrated Dyes	FAM/SYBR Green I; HEX/VIC/JOE/TET; ROX; Cy5
Dynamic Range	**1 to 10^{10} copies**
Sensitivity	1 copy
Communication	Wi-Fi, USB 2.0
Light Source	Long-life LED
Power	220 V AC 50 Hz; DC 15 V, 255 W

DISPLAY & DATA

Software	Quantitative and qualitative analysis, melting curve, genotyping
Storage	20 GB, about 40000 experiments
Display / Control	7-inch TFT touch screen; PC connection possible
Data Export	Excel, CSV, TXT

DIMENSIONS & WEIGHT

Dimensions (L × W × H)	300 × 267 × 198 mm
Net Weight	8 kg

HOW THE MASTER SCIENCE PORTABLE REAL-TIME PCR FITS SMALLER LABS

Waiting for a large instrument to free up	two independent 16-well blocks.
Limited bench space	compact 300 mm footprint.
Lid opened mid-run	electromagnetic lid lock.
Data lost in power cuts	power-off data recovery.

Applications

The Master Science Portable Real-Time PCR is used for
Quantitative and qualitative PCR Melting curve analysis Genotyping Small sample batches and two parallel assays Teaching and research

Thermal

- Dual 16-well blocks
- 5 °C/s ramp
- Locking hot lid

Optics

- 4 fluorescence channels
- 32 optical fibres, side detection
- LED excitation

Operation

- 7-inch touch screen, embedded software
- 40000-experiment storage
- Optional USB thermal printer

Optional Accessories

- USB thermal printer