Analytical Balance - Electronic Lab Scale - 0.0001 g Readability - 100-220 g Capacity

Model **MSBA-E1004SWISS, MSBA-E1204SWISS, MSBA-E2004SWISS, MSBA-E2204SWISS** | Brand **Master Science**







The Master Science Analytical Balance is a four-decimal laboratory balance for quantitative chemical analysis and other sub-milligram weighing tasks. An electromagnetic force restoration sensor provides 0.0001 g readability with a stabilisation time of three seconds or less.

KEY HIGHLIGHTS

- Sub-milligram accuracy
- Quick readings
- Versatile functions
- Protected weighing
- Easy documentation

AT A GLANCE

0.0001 g READABILITY	**±0.0002 g** REPEATABILITY
±0.0003 g LINEARITY	**Ø80 mm (Ø90 mm optional)** PAN SIZE

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

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Overview

Four capacities from 100 g to 220 g are available, all with an enclosed draft shield, white-backlit LCD and RS232 output for data transfer.

Key Benefits

Sub-milligram accuracy
electromagnetic force restoration delivers 0.1 mg readability with tight repeatability.

Quick readings
results stabilise in three seconds or less.

Versatile functions
the Master Science Analytical Balance offers counting, percentage, accumulation and peak hold.

Protected weighing
a full draft shield blocks air currents.

Easy documentation
RS232 output connects to a printer or PC.

Browse more weighing instruments in the Master Science laboratory instrument range.

Technical Specifications

GENERAL

Brand	Master Science
Model Number	MSBA-E1004SWISS, MSBA-E1204SWISS, MSBA-E2004SWISS, MSBA-E2204SWISS
SKU	MSBA-E1004SWISS, MSBA-E1204SWISS, MSBA-E2004SWISS, MSBA-E2204SWISS
Models	MSBA-E1004SWISS (100 g), MSBA-E1204SWISS (120 g), MSBA-E2004SWISS (200 g), MSBA-E2204SWISS (220 g)
Readability	**0.0001** g
Repeatability	±0.0002 g
Linearity	±0.0003 g
Stabilisation Time	≤ 3 s
Sensor	Electromagnetic force
Calibration	External
Functions	Tare, counting, unit conversion, percentage, accumulation, peak hold, sensitivity and speed setting
Alarms	Overload, fault; level indicator
Draft Shield	180 × 175 × 200 mm
Operating Temperature	5 to 35 °C

DIMENSIONS & WEIGHT

Minimum Weight	0.0004 g
Pan Size	Ø80 mm (Ø90 mm optional)
Dimensions	300 × 200 × 295 mm
Package Size / Weight	440 × 430 × 430 mm, 8.0 kg

DISPLAY & DATA

Display	LCD, white backlight, 96 × 24 mm
Interface	RS232C (printer optional)

HOW THE MASTER SCIENCE ANALYTICAL BALANCE SUPPORTS PRECISE WEIGHING

Drifting readings from air flow	the draft shield protects the pan.
Waiting for stable values	stabilisation takes three seconds or less.
Weighing errors on unlevel benches	the level indicator shows correct setup.
Manual transcription	RS232 output sends results directly.
Overloading the cell	overload alarm warns the user.

Applications

The Master Science Analytical Balance is used for
Quantitative chemical analysis Pharmaceutical sample and standard preparation Food and environmental testing Research and university laboratories Gravimetric determinations

Weighing

- 0.0001 g readability
- Electromagnetic force sensor
- External calibration

Functions

- Tare and counting
- Unit conversion and percentage
- Accumulation and peak hold

Safety and Display

- Overload and fault alarms
- Level indicator
- White-backlit LCD

Optional Accessories

- Printer
- Ø90 mm weighing pan