Internal Calibration Analytical Balance - 4-Digit Lab Balance - 0.0001 g - 110-220 g

Model **MSBA-N1104SWISS, MSBA-N1204SWISS, MSBA-N2004SWISS, MSBA-N2204SWISS** | Brand **Master Science**







The Master Science Internal Calibration Analytical Balance calibrates itself with a built-in weight, either at the press of a key or automatically at set time intervals. This keeps weighing results accurate throughout the day without handling external calibration masses.

KEY HIGHLIGHTS

- Always calibrated
- No external masses to handle
- Room to work
- Sturdy build
- Flexible units

AT A GLANCE

0.0001 g READABILITY	**±0.0002 g** REPEATABILITY
±0.0003 g LINEARITY	**Ø80 mm** PAN SIZE

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

support@themsci.com
www.themsci.com

Scan to view online

Overview

With 0.0001 g readability, an electromagnetic force sensor, aluminium housing and a spacious draft shield, it is suited to analytical chemistry, pharmaceutical and QC laboratories.

For a lower-cost version with external calibration, see the Master Science analytical balance.

How the Master Science Internal Calibration Analytical Balance improves weighing reliability:

Overview

- Built-in calibration weight
- One-key and timed calibration

Key Benefits

Always calibrated
the Master Science Internal Calibration Analytical Balance recalibrates on schedule with its internal weight.

No external masses to handle
calibration needs no separate weight set.

Room to work
a large draft shield fits flasks and weighing boats.

Sturdy build
aluminium housing gives stable, long-term operation.

Flexible units
g, mg, ct and oz readouts with percentage and counting.

Technical Specifications

GENERAL

General	Specifications of the Master Science Internal Calibration Analytical Balance:
Brand	Master Science
Model Number	MSBA-N1104SWISS, MSBA-N1204SWISS, MSBA-N2004SWISS, MSBA-N2204SWISS
SKU	MSBA-N1104SWISS, MSBA-N1204SWISS, MSBA-N2004SWISS, MSBA-N2204SWISS
Models	MSBA-N1104SWISS (110 g), MSBA-N1204SWISS (120 g), MSBA-N2004SWISS (200 g), MSBA-N2204SWISS (220 g)
Readability	**0.0001** g
Repeatability	±0.0002 g
Linearity	±0.0003 g
Stabilisation Time	≤ 3 s
Calibration	Internal, one-key or time-triggered
Sensor	Electromagnetic force
Units	g, mg, ct, oz and more
Functions	Tare, counting, percentage, below-weighing, sensitivity and speed setting
Alarms	Overload, fault; level indicator
Draft Shield	240 × 190 × 265 mm
Operating Temperature	5 to 25 °C

DIMENSIONS & WEIGHT

Minimum Weight	0.0004 g
Pan Size	Ø80 mm
Package Size	475 × 315 × 485 mm
Gross Weight	10 kg

DISPLAY & DATA

Display	LCD, white backlight
Interface	RS232

COMMON LABORATORY PROBLEMS AND HOW THIS BALANCE HELPS	
Calibration forgotten during busy days	timed internal calibration runs automatically.
Damaged or contaminated test weights	no external masses are needed.
Temperature changes affecting accuracy	**scheduled recalibration compensates drift.**
Cramped weighing chamber	the large draft shield fits bigger containers.
Results copied by hand	RS232 transfers data.

Applications

The Master Science Internal Calibration Analytical Balance is used for: Analytical and quantitative chemistry Pharmaceutical QC and formulation Standard and reagent preparation Density and gravimetric analysis Research and teaching labs

Weighing

- 0.0001 g readability
- Electromagnetic force sensor
- Below-balance weighing

Design

- Aluminium housing
- Large draft shield
- Overload and fault alarms