# Analytical Balance, 4 Digit

Model **MSFA2204SWISS** | Brand **Master Science** | Unit **Pc**

**Analytical Balance**



The features and technical specifications of an Analytical Balance - MSFA2204SWISS model, commonly used in laboratory settings for precise measurements. Here's features and technical details: Key Features: 1. Electromagnetic Force Compensation Technology: Ensures high precision in weighing by compensating for external electromagnetic forces. 2.

KEY HIGHLIGHTS

- Electromagnetic Force Compensation Technology
- Aluminum Alloy Die Cast Base and Stainless Steel Pan
- Super Bright LED Display with Backlight
- RS232 Interface
- Clear Glass Windshield

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## Overview

The features and technical specifications of an Analytical Balance - MSFA2204SWISS model, commonly used in laboratory settings for precise measurements. Here's features and technical details:

## Key Features

**Electromagnetic Force Compensation Technology**
Ensures high precision in weighing by compensating for external electromagnetic forces.

**Aluminum Alloy Die Cast Base and Stainless Steel Pan**
Provides durability and resistance to corrosion, making the balance robust for laboratory use.

**Super Bright LED Display with Backlight**
Enhances visibility, making it easier to read measurements under various lighting conditions.

**RS232 Interface**
Allows for data communication with other devices, facilitating data logging and analysis.

**Clear Glass Windshield**
Minimizes the impact of air currents on the measurement, ensuring accuracy.

**Overload Protection, Bubble Level Adjustment, Under Hook**
Enhances safety, accuracy, and versatility for various weighing methods.

**Full Capacity Subtraction**
Allows for taring, enabling measurement of net weights.

**Multi Weighing Units Conversion**
Supports various units like grams, milligrams, carats, and ounces, offering flexibility in applications.

### External Calibration
Ensures consistent accuracy by allowing easy calibration, either manually or automatically.

### Weighing, Piece Counting, Percentage Weighing
Expands functionality beyond simple weighing, useful in complex laboratory tasks.

### Universal Power Adapter
Ensures compatibility with different power sources.

### Certified Calibration Weight Supplied as Standard
Provides assurance of accuracy, meeting standard requirements.

### Analysis
The MSFA2204SWISS Analytical Balance is designed for high-precision tasks, ideal for laboratories that require accurate and repeatable measurements. The balance's combination of advanced features like electromagnetic force compensation and internal calibration, along with practical aspects like overload protection and multiple weighing modes, makes it versatile for various laboratory applications. The inclusion of a calibration weight and universal power adapter as standard accessories further enhances its utility and ensures compliance with rigorous standards.

## Technical Specifications

| PARAMETER | SPECIFICATION |
|---|---|
| Max Capacity | 220g |
| Accuracy Class | High precision, suitable for laboratory use. |
| Min Readout | 0.01g |
| Accuracy | 0.1mg |
| Repeatability | ±0.0002g, indicating consistency in measurements. |
| Linearity Error | ±0.0003g, reflecting the balance's accuracy over its range. |
| Stability Time | ≤3 seconds, allowing for quick measurements. |
| Working Temperature | 15°C to 35°C, suitable for typical laboratory environments. |
| Pan Size | 80mm or optional 90mm, adaptable for different sample sizes. |
| Dimensions | 300200295 mm, compact design. |
| Power Supply | Via power adapter, ensuring steady operation. |
| Calibration Mode | External calibration, requiring certified weights. |
| Weight | 6.0kg (Gross), 5.0kg (Net) |
| Packing Size | 425320415 mm, considering shipping and storage. |
| Communication Interface | RS232 with optional USB interface, expanding connectivity options. |