



Double Beam Balance

LMDBBB-A100

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1. Safety Measures

This equipment, in comparison with the same kind of other products, has the following characteristics:

- 1) Filled with a magneto resistor, which can effectively reduce the frequency of swinging of the balance, thus raising its working Efficiency.
- 2) Installed with tarring device making it convenient to weigh comparatively big quantity of bulk articles.
- 3) Adoption of double-beam designing, which has greater and more stable capacity of weighing, the maximum weighting capacity for balance being 2000 grams; the minimum being 0.1 gram.
- 4) Using high-grade polished agate for knife bearing and high-strength steel for knife and undergoing proper calibration thus effectively raising the precision of the balance, its attainable precision being 0.1 gram.
- 5) Provided with the rider of 210 grams, which makes it possible to weigh articles of lighter than 210 grams without using standard weights.

2. Introduction

Double Beam Balance LMDBB-A100 is a sturdy mechanical scale made of durable aluminum alloy featuring a stainless-steel platform with a weighing capacity of 2000g. Its classic design includes two pans and sliding weights on beams, with a magnetic damping system for safe and eco-friendly operation. It operates without batteries and is user-friendly, making weighing tasks hassle-free.

3. Features

- Hand-operated measuring technique
- Utilizes agate bearings and precision knife edges to ensure precise and consistent outcomes
- Swift and precise weight determination
- Weights crafted from iron; tweezers made from plastic
- Incorporated built-in magnetic damping that helps pointer halts with minimal swings, ensuring faster results

4. Specifications

Model No.	LMDBB-A100
Capacity	2000 g
Division	0.1 g
First Rod	10 × 0.1g
Second Rod	200 × 10g
Pan	150 mm (stainless iron)
Weights	1kg, 500g, 200g, 100g
Dimension	350× 240×170 mm
Packing dimension	490 × 430 × 580 mm (by carton)
Net Weight	2.1 kg
Gross Weight	5 kg

5. Applications

It's employed in various industries, including food, agriculture, textiles, scientific research, electronics, mining, medicine, and educational institutions, serving both commercial and personal purposes.

6. Installation

6.1 Unpacking

In the packing case, there is a **Double beam balance LMDBB-A10** with the Manual.

6.2 Adjustment

- 1) Choose a suitable smooth and stable table and put the balance on it. Slide the rider supplementary rider and tarring weight to the utmost left end.
- 2) Adjust the fine-tuning balancing knob at the right end of the beam, set the pointer of the Balance to equilibrium position zero.

7. Operations

Directions for use

- 1) Put the article to be weighted on the left pan of the balance.
- 2) Move the rider and the supplementary rider and add the standard weight.
- 3) Add up the readings of the rider supplementary rider and the standard weight and you will get the actual weight of the article weighted.
- 4) If the tarring device is used, put the container on the felt pan first and then move the tarring weight to the right until the pointer points to zero equilibrium. (If it is not in a state of equilibrium, turn the tarring weight for fine turning until it reaches equilibrium.)

8. Maintenance

- 1) If the balance is not in use, don't put anything on the pans.
- 2) No lubricating oil is to be applied to the knife bearing, which is to be always kept clean and dry. Should there be any dust thereon, blow it away by a ball blower.
- 3) If the magneto resistor adsorbs any substance from outside, thus preventing it from working properly, remove the substance from outside carefully.
- 4) Lay down the balance cautiously, remove the 4 screws fixed to the magneto resistor from under the foundation of the balance, take out the magneto resistor and remove the substance on the surface of the magnet with transparent glue ribbon. After that, replace the magneto resistor.