analytical balance with 0.1 mg readability optional printer

By integrating advanced single sensor technology and an automated calibration system, analytical balances provide users with weighing accuracy and ease of operation, and are suitable for use in environments requiring high accuracy and repeatability.

Analytical balances enable accurate weight data collection and seamless connection to modern laboratory management systems.

Main Features of Analytical Balance

1. High Resolution and Response Speed: Adopting advanced monoblock sensor, it provides 0.1mg indexing value, fast response speed and high accuracy. Suitable for measuring the weight of trace substances.
2. Intelligent Touch Operation: Equipped with high contrast LED touch screen, simple and intuitive operation, clear display of readings. The touch screen has wide-angle visibility to ensure that the weighing results can be easily viewed at different angles.
3. Automatic Calibration System: Built-in ISO certified isoCAL automatic calibration function, supports automatic adjustment of temperature and time triggers, ensures that the device can provide accurate weighing results in any environment.

4. High-efficiency Filter Membrane Technology: Ensures fast and accurate weighing results even when loaded with tiny weight objects.
5. multi-stage anti-vibration technology: four-stage anti-vibration design effectively eliminates external vibration interference, adapting to different working environments in the laboratory.
6. de-static protection: windshield glass surface special coating to prevent static interference with weighing accuracy.
7. Multi-functional applications: the device is built-in a variety of weighing modes, such as counting, net weighing, mass unit conversion, etc., to support accurate weighing, mixing, checkweighing, dynamic weighing and other application scenarios.
8. Data Output and Management: With RS232 standard interface and USB-C interface, it supports to transfer the weighing data directly to Excel table or connect with printer to output the report in accordance with GLP and GMP requirements.

Product Advantages

1. Weighing Accuracy: 0.1mg graduation value ensures that small weight changes in experiments can be accurately captured to meet the needs of precision experiments and process control.
2. Intelligent calibration function: automated isoCAL calibration system and temperature control adjustment, solves the weighing error brought by environmental changes, and improves the reliability of the experimental results.
3. easy to operate: touch screen design and one-button operation simplifies the experimental operation process, even for the first time users can easily get started, improve work efficiency.
4. anti-static and anti-vibration design: de-static technology and anti-vibration structure effectively reduces the impact of external interference on the weighing results, to ensure a more stable testing environment.
5. comprehensive data management: support and laboratory information management system docking, easy data backup, upload and remote monitoring, help laboratory automation management.

Working Principle

1. the analytical balance works based on single sensor technology and electromagnetic force balance principle.
2. Electromagnetic force sensor: the balance measures the mass of the sample in real time through a precise electromagnetic force balance system. The sensor responds quickly to small mass changes, ensuring real-time weighing data.
3. Automatic Calibration: The built-in isoCAL system of the device automatically adjusts the weighing system according to environmental changes, corrects deviations caused by temperature, humidity and other factors, and ensures the accuracy of each measurement.
4. Filter membrane weighing technology: Filter membrane technology is able to accurately recognize the quality change of low quality samples and reduce the error through tiny induction force.
5. Dynamic weighing mode: support dynamic weighing function, can record the quality change of the sample during processing in real time, suitable for determining the quality of the sample under different conditions.
6. analytical balance through the precision electromagnetic force sensor and automatic calibration system, real-time monitoring of weighing results, and automatic data storage and printing function. The data output adopts standardized interface, which is easy to connect with computer system and improve the management and application of laboratory data.

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Model	**B20A**	**B20B**	**B21A**	**B21B**	**B22A**	**B22B**
Capacity	120g		220g		320g	
Readability	0.1mg					
Repeatability	±0.1mg					
Linearity	±0.2mg					
Calibration Method	Internal	External	Internal	External	Internal	External
Typical Stabilization Time	⩽3 seconds				⩽5 seconds	
Weighing Pan Size	diameter 90mm					

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Model	**B20A**	**B20B**	**B21A**	**B21B**	**B22A**	**B22B**
Weighing Chamber Height	230mm					
Baud Rate	300, 600, 1200, 2400, 4800, 9600					
External Dimensions	470mmx310mmx320mm					
Power Supply	input: 220Vac, 50Hz, output: 12Vdc, 2A					
Note	Internal means Fully Automatic Internal Calibration, External means External Weight Calibration					