

Premium Analytical and Precision Balances: LA Reference Series Get What's Really Important



The next generation succeeding the legendary Masterpro LA series of lab balances is aptly named the LA Reference. Building upon the reputation of the former series that have become bywords for reliability in many laboratories throughout the world, this new series is The Reference when it comes to accomplishing lab weighing tasks proficiently.

Reliability spelled in capital letters

The LA Reference offers reliability without compromise. This means there is no room for error, either during operation or display of the results, thanks to a range of features. These extend from the error-free input capability of data and parameters to user-friendly, tactile keys, to the clear, high-contrast graphical display. Plain-text prompts in a choice of languages for all settings make it easy to quickly select the functions needed.



For use in regulated areas and quality management systems, the LA offers a complete range of functions that you can rely on. For example, the fully automatic function, isoCAL, makes sure that calibration and adjustment are performed at regular intervals as required. ISO/GLP-compliant data logging and printers provide ideal support in ensuring that you meet documentation requirements. The printout can be individually customized to fulfill your application-specific demands.



Ruggedness and high-tech design – not a contradiction!

Just one glance, and you can tell that the LA Reference offers the highest quality and resistance. The sleek metal housing, the robotically etched monolithic weigh cell technology and the high-grade keypad overlay give the balance the level of ruggedness it needs to stand up to tough daily use in the lab.



Precise manufacturing processes for the highest accuracy in the lab

The LA Reference provides you with the same maximum, consistent precision for measurements that goes into the manufacture of the balance itself at Sartorius. The balance's highly innovative monolithic weigh cell together with cutting-edge microprocessor technology ensures the most accurate and – on top of this – the fastest weight readouts anytime, all the time.

LA Reference – The Reference in standard features as well

The pan and weighing chamber base plate are made of high-grade stainless steel. As a result, they are chemically resistant and easy to clean. The especially large-sized draft shield chamber offers ample space for accommodating tall laboratory containers and for placing samples next to the pan to acclimatize them to the temperature inside. The display and operating unit that can be set up separately offers additional flexibility for special weighing tasks, such as below-balance weighing.

The standard built-in application software provides practically all programs ever needed for accomplishing weighing tasks reliably and accurately in the lab; from density determination of solid and liquid substances to differential weighing of up to 999 samples with convenient management of the data measured, and even statistics and time-controlled functions, to mention just a few.

The SQmin function for displaying the minimum allowable sample weight according to the United States Pharmacopeia and the S.U.R.E. function for continuously display of the measurement uncertainty ensure ideal dependability for use of the balance in regulated areas.



Design 1



Design 2



Design 3



Design 4



Design 5

Specifications

Model	Read-ability (mg)	Weighing capacity (g)	Pan size (mm)	Re-sponse time (average) (≤ s)	Repeat-ability (≤ ± mg)	Linearity (≤ ± mg)	De-sign
Analytical balances							
LA120S*	0.1	120	∅ 90	2	0.1	0.2	1
LA230S*	0.1	230	∅ 90	2	0.1	0.2	1
LA230P*	0.1 0.2 0.5	60 120 230	∅ 90	2	0.1 0.2 0.5	0.2 0.2 0.5	1
LA310S*	0.1	310	∅ 90	2	0.2	0.3	1
LA130S-F filter balance	0.1	150	208×264	4	0.2	0.2	5

Precision balances

LA1200S*	1	1,200	∅ 130	1.5	1	2	2
LA620S*	1	620	∅ 130	1.5	1	2	2
LA220S*	1	220	∅ 130	1.5	1	2	2
LA2000P*	1 10	1,010 2,000	∅ 130	1.5	1 10	2 10	2
LA620P	1 2 5	120 240 620	∅ 130	1.5	1 1 3	2 2 5	2
LA5200D	1 10	1,010 5,200	∅ 130	2.5	1 10	2 10	2
LA3200D	1 10	1,000 3,200	∅ 130	1.5	1 10	2 10	2
LA8200S	10	8,200	216×200	2	10	20	3
LA6200S*	10	6,200	216×200	1.5	10	20	3
LA4200S*	10	4,200	216×200	1.5	10	20	3
LA2200S*	10	2,200	216×200	1.5	10	20	3
LA820*	10	820	216×200	1.5	10	10	3
LA420	10	420	216×200	1.5	10	10	3
LA2200P*	10 20 50	400 800 2,200	216×200	1.5	10 10 30	20 20 50	3
LA5200P*	10 20 50 100	1,200 2,400 3,800 5,200	216×200	1.5	10 20 50 50	20 20 50 100	3
LA8200P*	10 20 50	2,000 4,000 8,200	216×200	2	10 10 30	20 20 50	3
LA64001S	100	64,000	400×300	1.5	100	500	4
LA34001S*	100	34,000	400×300	1.5	100	200	4
LA16001S*	100	16,000	400×300	1.5	100	200	4
LA12000S*	100	12,000	216×200	1	50	100	3
LA6200*	100	6,200	216×200	1	50	100	3
LA4200	100	4,200	216×200	1	50	100	3
LA2200*	100	2,200	216×200	1	50	100	3
LA34001P*	100 200 500	8,000 16,000 34,000	400×300	1.5	50 100 100	200 200 500	4
LA12000P*	100 200 500	3,000 6,000 12,000	216×200	1	100 100 300	100 200 500	3
LA34000*	1.000	34,000	400×300	1	500	500	4

* These models are available in versions verified at the factory for use in legal metrology in the European Economic Area