

# P-Series

## Analytical & Toploading Balances



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## P-Series Analytical Balances

Analytical balances with capacities from 110g to 310g offer a 9.5" high (241mm) weighing chamber with easy-access top and side sliding doors.

## P-Series Toploading Balances

Toploading balances with capacities from 200g to 8kg are perfect for a variety of weighing applications.

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*P-Series Balances offer the latest advances in weighing technology with a superior interface.*

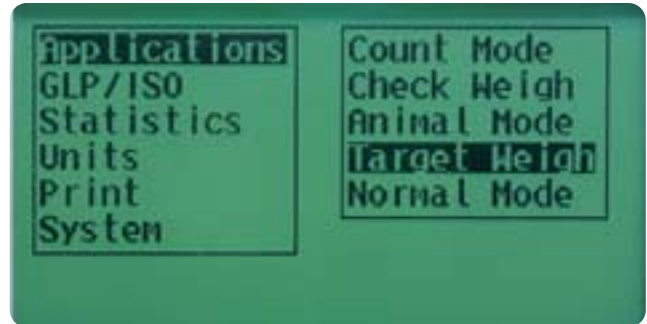
**Large, Powerful Display.** The P-Series balances feature an extra-large, back-lit display that has 0.7" high numerals. Choose two weigh units to display simultaneously. The display also shows time and date as well as current status of the balance.

**Easy Navigation.** Changing the operating parameters of the balance is simple. Once you enter the menu, the current settings are listed on the screen. Using the navigational arrows, simply highlight the desired change and press enter.

**Calibration is a snap.** All P-Series models feature automatic calibration. Simply add the appropriate weight standard to the balance and press the calibration key. The balance will automatically recognize the weight value and perform calibration instantly.

**Dynamic Fine Range.** Allows you to tare along the entire weighing spectrum and measure with the highest readability of the balance. Available in three dual-range models, featuring increased precision at higher capacities.

**Multiple Weigh Modes.** Choose from 16 weigh units including grams, milligrams, kilograms, ounces, troy ounces, pound, grain, pennyweight and carat. Define a custom unit by using a multiplication factor.



**Parts Counting.** When high-precision piece counting is a must, the versatile P-Series are ideal for use in inventory control applications.

**Animal Weighing.** For maximum accuracy, these balances can be programmed to average readings over a set period of time – ideal for weighing lab animals or for work in unstable environments.

**Built-in Statistics.** Store up to 250 points in the data log. At the touch of a key, calculate and print statistical functions such as sample averaging and standard deviation.

**RS-232 and USB port.** With either your RS-232 or USB port you can print data to a computer or printer. The bi-directional RS-232 port also allows commands to be sent remotely to your balance. Adjustable serial settings assure that this balance fits in to any established QC environment.

**Meets ISO/GLP Requirements.** Select either the RS232 or USB port to transmit data to a computer or printer for permanent records. Store up to 9 user names. Add alphanumeric batch identification and sample number.

**Programmable Environmental Settings.** Adjust environmental settings to meet your conditions. Choose a larger filter setting for production environments and a smaller filter setting for laboratory conditions.

**Sturdy Construction.** P-Series balances have a rugged die-cast aluminum base that supports a durable stainless-steel weighing pan. Other features include easy-to-see leveling bubble, chemically resistant keypad sealed for protection against spills and a weigh-below port (requires optional weigh-below device).

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### Specifications

#### Precision Analytical Balances

Models	P-114A*	P-214A*	P-314A*	PI-225DA†
Capacity	110 g	210 g	310 g	60/220g
Readability	0.1 mg	0.1 mg	0.1 mg	0.01/0.1mg
Taring Range	0 to 110 g	0 to 210 g	0 to 310 g	0 to 220 g
Repeatability, (s)	0.1 mg	0.1 mg	0.1 mg	0.02/0.2mg
Linearity	0.2 mg	0.2 mg	0.3 mg	0.0/0.2mg
Pan Size	3.1" dia. (79mm)	3.1" dia. (79mm)	3.1" dia. (79mm)	3.1" dia. (79mm)



#### Precision Toploading Balances

Models	P-203A*	P-403A*	P-603DA*	P-402A*	P-602A*	P-2002A*
Capacity	200 g	400 g	100/600 g	400 g	600 g	2000g
Readability	0.001 g	0.001 g	0.001/0.01g	0.01g	0.01g	0.01 g
Taring Range	0 to 200 g	0 to 400 g	0 to 600 g	0 to 400 g	0 to 600 g	0 to 2000g
Repeatability, (s)	0.001 g	0.001 g	0.002/0.01 g	0.01 g	0.01 g	0.01 g
Linearity	0.002 g	0.002 g	0.003/0.02 g	0.02 g	0.02 g	0.02 g
Pan Size	4.5 " dia. (114mm)	4.5 " dia. (114mm)	4.5 " dia. (114mm)	4.5 " dia. (114mm)	4.5 " dia. (114mm)	7.0 x 7.0" (178 x 178mm)

Models	P-4002A*	P-4002DA*	P-8002DA	P-6001A*	P-8001A
Capacity	4000 g	400/4000 g	800/8000 g	6000 g	8000 g
Readability	0.01 g	0.01/0.1 g	0.01/0.1 g	0.1 g	0.1 g
Taring Range	0 to 4000 g	0 to 4000 g	0 to 8000 g	0 to 6000 g	0 to 8000 g
Repeatability, (s)	0.01 g	0.02/0.1 g	0.02/0.1 g	0.1 g	0.1 g
Linearity	0.02 g	0.03/0.2 g	0.03/0.2 g	0.2 g	0.2 g
Pan Size	7.0 x 7.0" (178 x 178mm)	7.0 x 7.0" (178 x 178mm)	7.0 x 7.0" (178 x 178mm)	7.0 x 7.0" (178 x 178mm)	7.0 x 7.0" (178 x 178mm)

#### Common Specifications

Dimensions (LxWxH) Analyticals:	14.6 x 9.4 x 13.3" (371 x 239 x 338mm)
Dimensions (LxWxH) Toploaders:	14.6 x 9.4 x 3.8" (371 x 239 x 97mm)
Weighing Chamber Dimensions:	8.3 x 8.0 x 9.8" (211 x 203 x 249mm)
Operating Temperature:	10° - 30°C (50° - 86°F)
Storage Temperature:	-10° - 30°C (14° - 86°F)
Humidity:	< 90% RH
Net Weight (Analyticals):	15 lbs (6.80kg)
Net Weight (Toploaders):	10 lbs (4.54kg)
Stabilization Time:	3 seconds
Electrical Requirements:	115V 50/60Hz, other voltages available.

\* Models available as PI-Series with internal calibration. Simply press the calibration key and calibration is completed automatically with precision, internal weights.

† Available with internal calibration only.

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