

Pinnacle Series

Precision Analytical and Toploading Balances



Pinnacle Series Precision Balances

Latest advances in weighing technology with a superior, yet simple, user interface

Denver Instrument's Pinnacle Series balances offer simple menu-driven operation, easy-to-read display, an extensive list of applications and the most comprehensive standard serial interfacing available.

Large, Powerful Display. The Pinnacle 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.

DenverCal® included on PI-Series. DenverCal provides three options for internal calibration. Time-based calibration will automatically engage at factory-defined time intervals. The temperature-based calibration begins automatically when the ambient temperature changes significantly. Or, simply press the calibration key and calibration is completed with precision, internal weights. All Pinnacle models will also recognize and calibrate to various external weights.



Multiple Weigh Modes. Choose from 16 weigh units including grams, milligrams, kilograms, ounces, troy ounces, pounds, grains, pennyweight and carats. Define a custom unit by entering a multiplication factor.

Parts Counting. When high-precision piece counting is a must, the versatile Pinnacle Series is 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 results in the data log. At the touch of a key, retrieve statistical information: number of samples, total weight, average weight, minimum weight, maximum weight, and standard deviation.

RS-232 and USB ports. The Pinnacle balance is unique as it offers two standard interface options for external communication. Print data to a computer or printer via the RS-232 or USB ports. Send commands remotely to the balance via the bi-directional RS-232 port. Serial settings are adjustable to assure that the balance fits into 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, sample number, date and time.

Programmable Environmental Settings. Adjustable environmental settings provide superior performance in difficult production environments or stable laboratory conditions, alike.

Sturdy Construction. The Pinnacle Series has 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).





Analytical Models:
P-114, P-214, P-314, PI-225D



Toploading Models:
P-203, P-403, P-603D, P-402, P-602



Toploading Models:
P-2002, P-4002, P-4002D, P-8002D, P-6001, P-8001

Models	P-114	P-214	P-314	PI-225D
Capacity	110g	210g	310g	60/220g
Readability	0.1mg	0.1mg	0.1mg	0.01/0.1mg
Taring Range	0 to 110g	0 to 210g	0 to 310g	0 to 60/220g
Repeatability, (s)	0.1mg	0.1mg	0.1mg	0.02/0.1mg
Linearity	0.2mg	0.2mg	0.3mg	0.03/0.2mg
Pan Size	3.1" dia. (79mm)	3.1" dia. (79mm)	3.1" dia. (79mm)	3.1" dia. (79mm)

Models	P-203	P-403	P-603D	P-402	P-602	P-2002
Capacity	200g	400g	100/600g	400g	600g	2000g
Readability	0.001g	0.001g	0.001/0.01g	0.01g	0.01g	0.01g
Taring Range	0 to 200g	0 to 400g	0 to 600g	0 to 400g	0 to 600g	0 to 2000g
Repeatability, (s)	0.001g	0.001g	0.002/0.01g	0.01g	0.01g	0.01g
Linearity	0.002g	0.002g	0.003/0.02g	0.02g	0.02g	0.02g
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-4002	P-4002D	P-8002D	P-6001	P-8001
Capacity	4000g	400/4000g	800/8000g	6000g	8000g
Readability	0.01g	0.01/0.1g	0.01/0.1g	0.1g	0.1g
Taring Range	0 to 4000g	0 to 4000g	0 to 8000g	0 to 6000g	0 to 8000g
Repeatability, (s)	0.01g	0.02/0.1g	0.02/0.1g	0.1g	0.1g
Linearity	0.02g	0.03/0.2g	0.03/0.2g	0.2g	0.2g
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

Stabilization Time (Average):	3 seconds, 4 seconds (Dual-Range)
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)
Internal Analytical Chamber Dimensions:	6.1 x 9.4 x 9" (156 x 238 x 229mm)
	Height Above Pan: 8.6" (518mm)
Operating Temperature:	10° - 30°C (50° - 86°F)
Humidity:	< 90% RH
Net Weight (Analyticals):	15 lbs (6.80kg)
Net Weight (Toploaders):	10 lbs (4.54kg)
Electrical Requirements:	115V at 100mA, Center Pin (-), Adapter Included



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