

The PW Analytical and PGW Precision Balances



Speed, Performance, Value – The Right Balance

Adam Equipment's PW analytical and PGW precision balances are designed to deliver the ultimate in speed and accuracy in an easy-to-use and reliable model. The attractive functional design and advanced features make the PW and PGW series your best choice for your laboratory balances.

The series incorporates the very latest generation of software, which has a deceptively simple user interface for easy setup and control of a wide range of smart functions and security features, allowing simple and advanced weighing applications to be executed on the spot, without the need for complex calculations. All the features are packaged into a high power, high performance balance, saving you valuable time and resources.

The PW and PGW combine the latest in product development with a company committed to your weighing needs, giving you the perfect balance of speed, performance and value.



Special design features

Distinctive and informative display

The large backlit LCD display has clear digits so critical data is always in view, a capacity tracker means that you always know where you are in the weighing range and an integrated second digital display shows additional information including text prompts, time / date and piece weight.

Wide-ranging data communication options

The standard bi-directional RS-232 communications port integrates fully with a computer or connects to a printer, allowing easy output of information as well as a variety of other accessible options. A second port enables future expansion for external devices.

Safety and security features

Adam's state-of-the-art technology provides a number of features to keep your balance safe and secure. Password protection software can be enabled, preventing unauthorised use. There is also an integral security mounting point for a Kensington™ type lock and cable.

Smart and stylish design

The PW and PGW balances meet the standards of reliability and quality that Adam's customers expect. The metal housing is much more rugged than plastic cases and has been designed to divert spills away. The large, stainless steel pan can be removed for easy cleaning or storage.

The PW and PGW balances at speed and performance for you



Track and record inventory with parts counting

The dual display gives true flexibility for counting parts, so whether your application involves pharmaceuticals or small manufacturing components with a high counting accuracy, the PW and PGW are ideally suited for you. The display shows both the total weight on the platform as well as the number of pieces counted and, at the touch of a button, the unit weight of one piece can be displayed.



Quality control checks made simple

Filling and checking the weight of objects with these balances makes it easy to meet your quality control expectations. Set your own limits and the display will indicate when the weight is too low, too high or on the mark and a selectable warning indicates when you are on target. The software's true flexibility lets you select one or two target points. Use the capacity tracker to give you a visual perspective of your check weighing.



Percentage weight calculations on the spot

You can compare your products against a master sample reference weight for quality control and, using the percentage weighing feature, the balance does all the calculations for you and displays the variations as a percentage.

THE RIGHT BALANCE Speed, Performance, Value



FEATURES AT A GLANCE

RS-232 INTERFACE STANDARD

Data transfer and communication to printers and computers is quick and easy

OPTIONAL ACCESSORIES AVAILABLE TO SUIT YOUR NEEDS

Including density weighing kit, hook for below-balance weighing, printer, RS-232 cable, anti-vibration table, dust cover and in-use wet cover

DIGITAL FILTERS

User-selectable filters enhance the performance of the balance based on your environment

re packed with valuable features, delivering
our applications.



Control fluctuations while you weigh

The animal/dynamic weighing mode helps you get the best readings when your environment or application is affected by influences including vibrations, oscillation or movement of objects on the platform, or air movements. The PW and PGW give you the control by allowing the user to select the appropriate filter speed for the best response.



Track weights of tared objects and their contents

Simply using the tare key, you can automatically track every component of the weighing process, whether you need to know the value of the tared container, the goods it contains, or the total of both together. The PW and PGW's dual display can show both the total gross weight and the net weight at the same time when needed.



Calculate and measure weights in a batch

You can use the totalisation features to calculate each item's weight in a batch, as well as the total during the weighing process. The data can be recalled on the screen and transmitted to a computer or printer for further analysis.



Perform density measurements of liquids and solids

Whether your application involves density measurements of liquids or solids, density calculations are simple with the built-in software that guides you through the application as you work. Below-balance weighing access is standard on all models for the ability to perform density and other weighing needs under the balance. An optional density kit for the PW and PGW (mg balances) for above density calculations or a below-balance weighing hook are available.



Weighing and customised units

Up to 18 weighing units are included as standard, offering you the flexibility needed for every laboratory application. One custom unit allows you to perform independent custom calculations. For example; using the PW and PGW to work out a cost per weight reading, or a weight per square metre, gives you added flexibility.

How can Adam's PW or PGW balance help you?



DESIGNED FOR A WIDE RANGE OF APPLICATIONS

Parts counting, check and percentage weighing, net/totalisation, animal/dynamic weighing and density determination built in applications to suite your needs

INCLUDES UP TO 18 WEIGHING UNITS

You can even customise a unit to suit your favourite application

BACKLIT LCD DISPLAY WITH DUAL DISPLAY

Easy to read display stands out to give you the freedom to do what you need to

MONITORS CAPACITY LIMITS TO PREVENT OVERLOAD

Capacity tracker clearly indicates remaining weighing capacity, also used as an indicator for check weighing

MOTORISED INTERNAL AND EXTERNAL CALIBRATION OPTIONS

Internal calibration software senses temperature changes and quickly calibrates automatically or sets a preset time for your calibrations

PRINTS GLP COMPLIANT REPORTS AFTER EACH CALIBRATION

Details report include time, date, balance number and calibration verification for full traceability

Technical Specifications

Model	PW 124	PW 184	PW 214	PW 254
Maximum capacity	120g	180g	210g	250g
Readability	0.0001g			
Repeatability (S.D.)	0.00015g	0.0002g		
Linearity (±)	0.0002g			
Pan size	90mm Ø			
Units of measurement	Gram (g), Milligram (mg), Carat (ct), Ounce (Oz), Dram (d), Grain (GN), Troy Ounce (Ozt), Pennyweight (dWt), Momme (MM), Taels Hk. (TL.H), Taels S. (TL.S), Taels T. (TL.T), Tical (ti), Newton (N), Tola (T), Custom unit			
Calibration	Calibration with internal mass. Alternatively the user can choose to calibrate using an external mass			
Draught shield dimensions (w x d x h)	202 x 158 x 215mm			
Overall dimensions (w x d x h)	256 x 524 x 275mm			
Net weight	12kg			

Model Ext. Cal	PGW 153e	PGW 253e	PGW 453e	PGW 753e	PGW 1502e	PGW 2502e	PGW 3502e	PGW 4502e
Model Int. Cal	PGW 153i	PGW 253i	PGW 453i	PGW 753i	PGW 1502i	PGW 2502i	PGW 3502i	PGW 4502i
Maximum capacity	150g	250g	450g	750g	1500g	2500g	3500g	4500g
Readability	0.001g				0.01g			
Repeatability (S.D.)	0.001g				0.01g			
Linearity (±)	0.002g				0.02g			
Pan size	140 x 140mm				192 x 192mm			
Units of measurement	Gram (g), Kilogram (kg), Milligram (mg), Carat (ct), Pound (lb), Ounce (Oz), Dram (d), Grain (GN), Troy Ounce (Ozt), Pennyweight (dWt), Momme (MM), Tels Hk. (TL.H), Tels S. (TL.S), Tels T. (TL.T), Tical (ti), Newton (N), Custom unit				Gram (g), Kilogram (kg), Carat (ct), Pound (lb), Ounce (Oz), Dram (d), Grain (GN), Troy Ounce (Ozt), Pennyweight (dWt), Momme (MM), Tels Hk. (TL.H), Tels S. (TL.S), Tels T. (TL.T), Tical (ti), Newton (N), Custom unit			
Calibration	Automatic external calibration on "e" models or Internal automatic calibration on "i" versions							
Draught shield dimensions (w x d x h)	158 x 158 x 80mm				N/A			
Overall dimensions (w x d x h)	251 x 358 x 104mm							
Net weight	5.5kg							

General Specifications

Interface	Bi-directional RS-232 (Standard)
Stabilisation time	Typical 2-4 seconds
Display	Backlit LCD with dual digits (24 mm high) and capacity tracker
Power supply	15 VDC, 50/60 Hz, 800 mA (Input Voltage 100-240 V, 50/60 Hz)
Operating temperature	10°C to 40°C
Housing	Die cast aluminium housing with glass weighing chamber

Accessories

No. 8023 - Adam printer
 No. 5001 - Adam statistics printer
 No. 3584 - Thermal paper roll for Adam printers
 No. 8036 - Anti-vibration table
 No. 7999 - Density determination kit for PGW (1mg only)
 No. 8001 - Density determination kit for PW
 No. 3620 - Below balance hanger

No. 8030 - Security lock and cable
 No. 8002 - Dust cover for PGW
 No. 8003 - Dust cover for PW
 No. 9028 - RS-232 cable
 No. 9066 - RS-232 to USB interface cable
 No. 9061 - AdamDU - data collection software