Highland Portable Precision Balances

Adam Equipment's Highland balances have what it takes for lab work, field use, and various education and industrial applications. They feature multiple weighing units, RS-232 and USB interfaces, rechargeable battery pack and AC operation, capacity tracker, adjustable feet and level, lock down and more. Density and specific gravity determination are easy with the below balance weighing feature, and the removable draft shield eliminates wind disturbances outdoors or in drafty environments. ShockProtect™ overload protection keeps the performance of the Highland safe and secure, and the HandiCal™ internal calibration weight provides reliable readings time after time. With built in applications for parts counting, percentage weighing and totalization / accumulation, Highland balances are packed full of useful features.

Adam Equipment has been manufacturing balances and scales for over 35 years, providing professionals worldwide with quality products that are always the perfect balance of speed, performance, and value.

AE ADAM®

THE RIGHT BALANCE
Speed, Performance, Value

HCB Highlights:

HandiCal™ internal calibration with built in mass can be locked so only you calibrate the balance when you want to. The built in weight allows for quick and easy calibrations allowing you more time for weighing tasks.

Built in security slot accommodates a standard Kensington™ type lock and cable to keep your balance where you want it.

Three-point *ShockProtect*™ protection designed for the ultimate in performance reliability. With ShockProtect™ your balance can with stand up to 200kg of weight without damaging the weighing mechanism.

Both USB and RS-232 interfaces give you complete communication flexibility.

Smart housing design lets you safely stack Highland balance on top of each other for convenient storage and transportation.

Highland HCB balances are complete with all the features and accessories at a price that's right.

Features
- RS-232 and USB interfaces
- Can be stacked for storage and transportation
- ShockProtect™ overload protection
- Audible overload indicator
- HandiCal™ internal calibration for fast and accurate readings
- Lock down mounting slot for Kensington™ type lock and cable
- Dual tare keys, colour coded for easy recognition
- Internal rechargeable battery with auto power off and low-battery indicator
- Capacity tracker
- Removable draft shield

Applications
- Weighing
- Percentage weighing
- Parts Counting
- Totalisation / Accumulation

Backlit display
Bright backlit display with capacity tracker to clearly show readings.

USB & RS-232 interface
Both a USB and RS-232 bidirectional interface included for easy connection to computers and printers.

ShockProtect™ protection
Unique patented protection helps safeguard the balance from overloads.

Technical Specifications

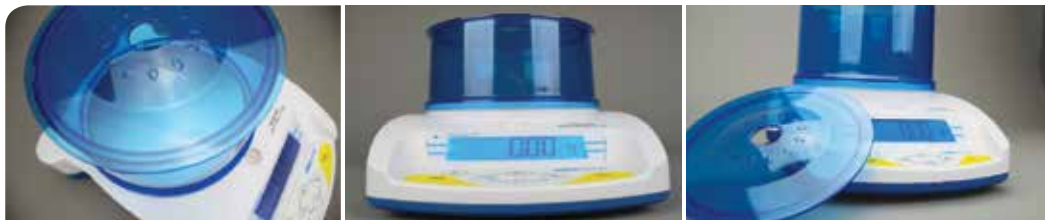| Model	HCB 123	HCB 153	HCB 302	HCB 602H	HCB 602	HCB 1002	HCB 1502	HCB 3001
Capacity	120g	150g	300g	600g	600g	1000g	1500g	3000g
Readability	0.001g	0.005g	0.01g	0.01g	0.02g	0.01g	0.05g	0.1g
Repeatability (S.D.)	0.003g	0.01g	0.02g	0.02g	0.04g	0.02g	0.1g	0.2g
Linearity (+/-)	0.003g	0.01g	0.02g	0.02g	0.04g	0.02g	0.1g	0.2g
Pan Size	120mm ø							
Weighing Units	g, ct, lb, oz, d, GN, ozt, dwt, MM, Tl.T, TL.C, TL.t, t, N, g2							
Stabilisation Time	2 seconds							
Interface	RS-232 and USB (both included)							
Calibration	Automatic external and internal HandiCal calibration							
Display	Backlit LCD with 6 - 16mm high digits and capacity tracker							
Power Supply	12VDC 800mA adapter and internal rechargeable battery							
Operating Temperature	0°C - 40°C							
Housing	ABS plastic with stainless steel platform							
Draft shield dimensions	132mm ø x 100mm high							
Overall Dimensions	170 x 245 x 80mm							
Net Weight	2kg							

Accessories
- In-use cover
- Hard carry case
- Kensington™ type lock and cable
- Thermal printer
- Replacement paper - pack of 5 rolls
- AdamDU Data Collection Software
- RS-232 cable
- USB cable

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Adam Equipment's Highland balances have what it takes for lab work, field use, and various education and industrial applications. They feature multiple weighing units, RS-232 and USB interfaces, rechargeable battery and AC operation, capacity tracker, adjustable feet and level, lock down and more. Density and specific gravity determination are easy with the below balance weighing feature, and the removable draft shield eliminates wind disturbances outdoors or in drafty environments. ShockProtect™ overload protection keeps the performance of the Highland safe and secure, and the HandiCal™ internal calibration weight provides reliable readings time after time. With built in applications for parts counting, percentage weighing and totalisation / accumulation, Highland balances are packed full of useful features.

Full of features, the Highland is an exceptional value in precision weighing

Features

- Vivid, backlit LCD easily visible in any lighting conditions
- Programmable backlight can be set to "always on," "always off" or "light only when weighing"
- Capacity tracker built into display for easily monitoring possible overloads
- Balances stack efficiently and safely to save space (120mm pan size only)
- Color-coded keys facilitate quick recognition of the most frequently used buttons
- Dual tare keys facilitate operation with either the left or right hand
- Level indicator and adjustable feet ensure proper balance setup for optimum weighing results
- Security slot for optional Kensington-type lock and cable to help prevent theft
- Large, grade 304 stainless steel pan allows easy cleaning
- Solid ABS housing is durable for industrial uses
- Three-point ShockProtect® feature helps prevent overload damage to internal components
- Hook included for weighing below the balance
- Internal calibration eliminates need for external weight set
- USB and RS-232 interfaces provide speedy communication with computers and printers
- Audible overload alarm warns when capacity has been exceeded
- External calibration allows for verification and adjustment with weights
- Selectable digital filtering helps minimize effects of vibration and disturbances
- Parts counting with preset sample sizes
- Memory accumulation totals results
- Zero-tracking feature ensures display returns to zero reading
- AC adapter included
- Rechargeable battery included for operation almost anywhere
- Programmable auto power-off to save energy

Applications

- Weighing
- Parts counting
- Percentage weighing
- Accumulation of weight

About ADAM:

For nearly 50 years, professionals worldwide have relied on Adam Equipment for an extensive selection of dependable and affordable weighing equipment. Adam provides the right balance of speed, performance and value.

Product Details

Model	HCB 123	HCB 153	HCB 302	HCB 602	HCB 602H	HCB 1002	HCB 1502	HCB 2202	HCB 3001	HCB 6001
Capacity	120g	150g	300g	600g	600g	1000g	1500g	2200g	3000g	6000g
Readability	0.001g	0.005g	0.01g	0.02g	0.01g	0.01g	0.05g	0.01g	0.1g	0.1g
Repeatability (S.D.)	0.0008g	0.005g	0.008g	0.01g	0.01g	0.01g	0.05g	0.01g	0.05g	0.05g
Linearity (+/-)	0.003g	0.01g	0.02g	0.02g	0.02g	0.02g	0.1g	0.03g	0.2g	0.2g
Minimum Weight (USP, typical)	0.02g	0.02g	0.02g	1g	0.5g	0.5g	1g	0.5g	20g	20g
Pan Size	4.7" ø / 120mm ø									5.7" ø / 145mm ø
Weighing Units	g, lb, oz, N, GN, ct, dr, dwt ,mm, ozt, T, tl.H, tl.S, tl.T									
Stabilization Time (sec)	3	2	3			2		3		2
Interface	RS-232 / USB									
Calibration	External calibration / Internal manual calibration									
Display	Backlit LCD with 0.7" / 18mm high digits									
Power Supply	12VDC 800mA adapter / Internal rechargeable battery									
Operating Temperature	32° a 104° F / 0° to 40°C									
Housing	ABS plastic									
Draught Shield	5.2" ø x 3.5" / 132mm ø x 90mm									N/A
Overall Dimensions (WxDxH)	6.9"x9.9"x3.1" / 174x252x80mm									
Net Weight	4.4lb / 2kg									

Accessories

Item number........Description

308002042 ....Hard carrying case with lock for CQT/HCB
308232034....................In-use cover (pack of 5)
308232035....................In-use cover (pack of 10)
308232030....................In-use cover
1120011156 ....ATP thermal printer
3126011263 ....ATP thermal printer paper
3126011281 ....ATP thermal printer paper (pack of 10)
700400103....................RS-232 cable
700100046 ....Kensington-type lock and cable
600002028 ....Adam DU data collection program
3074010267..................USB cable
700660290 ....Calibration certificate
700100007....................F1 100g Calibration Weight
700100012.....................F1 200g Calibration Weight
700100009 ....F1 1kg Calibration Weight
700100010 ....F1 2kg Calibration Weight

Key Accessories

ATP Thermal Printer
Easy-to-use features combined with quick set-up equals a truly versatile thermal printer. A single push-button feed key and three easy-to-read LED indicators make operation simple.

Kensington® Cable Lock
The security lock and cable fits the built-in lock attachment on balances and scales, and loops around an object to secure your balance in place. The flexible steel cable is difficult to cut, and the combination lock allows users to choose a combination number for added security.

Adam DU Software
Adam DU software connects a balance to the laboratory network, helping to achieve seamless data collection, transfer and analysis. DU features an easy-to-use interface with a main command window, allowing users to quickly collect information from up to eight Adam balances simultaneously using RS-232 or USB connections.

Supplied by

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Highland® Approved Precision Balances

ADAM®

With NTEP approval, Highland approved balances are suitable for use in labs or numerous commercial operations. Highland contains practical features that simplify lab work; bioscience research; pharmaceutical testing; jewelry measurement; or any legal-for-trade weighing application. The Highland approved balance is powered by AC adapter or rechargeable battery, so it operates in settings where electricity is not readily available. A built-in security slot for a Kensington-type lock and cable helps keep the balance safe. Other features include multiple weighing units; RS-232 and USB interfaces; and capacity tracker.

The NTEP-approved Highland balance meets Class II requirements in legal-for-trade applications.

NTEP Approved

Features

- Vivid, backlit LCD easily visible in any lighting conditions
- Programmable backlight can be set to "always on," "always off" or "light only when weighing"
- Capacity tracker built into display for easily monitoring possible overloads
- Balances stack efficiently and safely to save space (120mm pan size only)
- Color-coded keys facilitate quick recognition of the most frequently used buttons
- Dual tare keys operate with either the left or right hand
- Level indicator and adjustable feet ensure proper balance setup for optimum weighing results
- Security slot for optional Kensington-type lock and cable to help prevent theft
- Large, grade 304 stainless steel pan allows swift cleaning
- Solid ABS housing is durable for industrial use
- Three-point ShockProtect® feature helps prevent overload damage to internal components
- Hook included for weighing below the balance
- USB and RS-232 interfaces provide speedy communication with computers and printers
- Audible overload alarm warns when capacity is exceeded
- Selectable digital filtering helps minimize effects of vibration and disturbances
- Parts counting with preset sample sizes
- Memory accumulation totals results
- Zero-tracking feature ensures display returns to zero reading
- EC type and OIML approved
- AC adapter included
- Rechargeable battery included for operation almost anywhere
- Programmable auto power-off to save energy

Applications

- Weighing
- Parts counting
- Percentage weighing
- Accumulation

Highland® Approved Precision Balances

ADAM®

Model	HCB 103aM	HCB 302aM	HCB 602aM	HCB 1202aM	HCB 3001aM	HCB 5001aM
Capacity	100g	300g	600g	1200g	3000g	5000g
Readability	d=0.001g e=0.01g	d=0.05g e=0.05g	d=0.01g e=0.1g	d=0.01g e=0.1g	d=0.5g e=0.5g	d=0.5g e=0.5g
Repeatability (S.D.)	0.002g	0.1g	0.02g	0.02g	1g	1g
Linearity (+/-)	0.003g	0.1g	0.02g	0.02g	1g	1g
Pan Size	4.7" ø / 120mm ø					
Weighing Units	g, ct, kg, lb, oz, ozt, GN					
Stabilization Time (sec)	2					
Interface	RS-232, USB					
Calibration	N/A					
Display	Backlit LCD with 0.7"/ 18mm -high digits					
Power Supply	12VDC 800mA adapter / Internal rechargeable battery					
Operating Temperature	15° to 35°C / 59° to 95°F					
Housing	ABS plastic					
Draft Shield	Round 5.2" ø x 3.5" / 132mm ø x 90mm					
Overall Dim.	6.9"x9.9"x3.1" / 174x252x80mm (wxdxh)					
Net Weight	4.4lb / 2kg					
Approvals	NTEP 18-004					

Accessories

Item number	Description
308002042	Hard carrying case with lock
308232034....................	In-use wet cover (pack of 5)
308232035....................	In-use wet cover (pack of 10)
308232030....................	In-use wet cover
3074010267..................	USB cable
700400103....................	RS-232 cable
1120011156	ATP thermal printer
3126011263	ATP thermal printer paper
3126011281	ATP thermal printer paper (pack of 10)
700100046	Kensington-type lock and cable
600002028...................	AdamDU Data Collection Program
700660290	Calibration certificate
700100195.....................	ASTM 3 - 200g
700100190	ASTM 2 - 1000g
700100187.....................	ASTM 2 - 100g
700100192.....................	ASTM 4 - 2000g

Key Accessories

ATP Thermal Printer
Easy-to-use features combined with quick set-up equals a truly versatile thermal printer. A single push-button feed key and three easy-to-read LED indicators make operation simple.

Kensington® Cable Lock
The security lock and cable fits the built-in lock attachment on balances and scales, and loops around an object to secure your balance in place. The flexible steel cable is difficult to cut, and the combination lock allows users to choose a combination number for added security.

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