ANALYTICAL/SEMI-MICRO BALANCES



A&D WEIGHING
...Clearly a Better Value

# PHOENIX" SERIES

# Internal Calibration Mass with Rear-Mount Motor Drive Assembly and Anti-Static Glass



• 0.01mg Semi-Micro Resolution



Internal Calibration Standard



Full Digital Calibration



User Friendly Operation



Liquid Crystal Display



 RS-232C bi-directional Interface



WinCT • Windows Communication **Tools Software** 



GLP/GMP/GCP/ISO Compliance



Balance ID Number



Time and Date Function



Data Memory Function



 Automatic Counting Accuracy Improvement



- ■ ON > Auto Power On Function



Bluetooth® Interface



Underhook Capability

## Phoenix Series Specifications

Capacity / Resolution		GH-120	GH-200	GH-300	GH-202	GH-252		
Gram (g)		120x0.0001	220x0.0001	320x0.0001	220x0.0001 / 51x0.00001	250x0.0001 / 101x0.00001		
(mg		120000x0.1	220000x0.1	320000x0.1	220000x0.1 / 51000x0.01	250000x0.1 / 101000x0.01		
Decimal Ounce (oz)		4.23x0.00001	7.76x0.00001	11.29x0.00001	7.76x0.00001 / 1.80x0.000001	8.82x0.00001 / 3.56x0.000001		
Troy Ounce (ozt)		3.86x0.00001	7.07x0.00001	10.29x0.00001	7.07x0.00001 / 1.64x0.000001	8.04x0.00001 / 3.25x0.000001		
Pennyweight (dwt)		77.2x0.0001	141.5x0.0001	205.8x0.0001	141.5x0.0001 / 32.8x0.00001	160.8x0.0001 / 64.9x0.00001		
Carat (ct)		600x0.001	1100x0.001	1600x0.001	1100x0.001 / 255x0.0001	1250x0.001 / 505x0.0001		
Momme (mon		32.0x0.0001	58.7x0.0001	85.3x0.0001	58.7x0.0001 / 13.6x0.00001	66.7x0.0001 / 26.9x0.00001		
Grain Unit (GN)		1852x0.002	3395x0.002	4938x0.002	3395x0.002 / 787x0.0002	3858x0.002 / 1559x0.0002		
Tola (t)		10.29x0.00001	18.86x0.00001	27.44x0.00001	18.86x0.00001 / 4.37x0.000001	21.43x0.00001 / 8.66x0.00000		
ael (TL)		3.20x0.00001	5.87x0.00001	8.53x0.00001	5.87x0.00001 / 1.36x0.000001	6.67x0.00001 / 2.69x0.000001		
Percentage Min Div		0.01%, 0.1% or 1% (auto prompt)						
Counting Min Weight		0.1 mg						
Linearity		±0.2 mg	±0.2 mg	±0.3 mg	±0.2 mg / ±0.03 mg	±0.2 mg / ±0.10 mg		
Repeatability / Std Dev		0.1 mg	0.1 mg	0.2 mg	0.1 mg / 0.02 mg	0.1 mg / 0.03 mg		
Stabilization Time		Approx. 3.5 sec (0.1 mg) / 8 sec (0.01 mg)						
Sensitivity Drift (10°C – 30°C)		±2ppm / °C (when automatic self calibration is not used)						
Display Refresh		5 times per second / 10 times per second						
Pan Size		Ø 90 mm / 3.6 inches						
Physical Dimensions	(mm)	217(W) x 442(D) x 316(H)						
	(in)	8.54(W) x 17.4(D) x 12.24(H)						
Breeze Break Dimensions	ns (mm)	164(W) x 148.5(D) x 251(H)						
	(in)	6.45(W) x 5.84(D) x 9.88(H)						
Operating Temperature		5C to 40C (41 F to 104 F), 85% RH or less (no condensation)						
Weight		Approx. 8.2 kg / 18 lb						
Power		100, 120, 220, 240 VAC (AC Adapter) 50 Hz / 60 Hz, 11 VA						
Standard Accessories		WinCT in CD-ROM, Manual, AC Adapter						
Ext. Cal. Mass (optional)		50 g / 100 g	100 g / 200 g	100 g / 200 g / 300 g	20 g / 50 g / 100 g / 200 g			



· 0.01mg Semi-Micro Resolution (some models).



· Internal Calibration Standard with built-in motor driven calibration mass saves time and money. Balance can even calibrate itself when sensing a change in ambient temperature.



. Full Digital Calibration simplifies calibration by eliminating the need to continuously loan and unload calibration weights to adjust Zero and Span.



. User Friendly Operation with large, clearly marked English Language Keys.



. Liquid Crystal Display with large, easy-to-read digits from a wide viewing angle.



RS-232C • RS-232C bi-directional Interface for use with PC, Printer or Remote Display.



WinCT • Windows Communication Tools Software provides easy transmission of weighing data from A&D Balances and scales to a computer using an RS-232C interface. You can quickly collect data into Windows applications in a manageable format limited only by your own computers capabilities. Free Download from our website.



• Bluetooth® Interface (optional) allows Wireless Communication between the Balance and PC.



 GLP/GMP/GCP/ISO Compliance allows GLP and LIMS balance management by outputting the Balance ID number and data used to calibrate the balance. The data can be output to A&D AD-8121B printer or a computer, indicating date, time, Balance ID number, serial number and calibration data.



. Balance ID Number can be user-set when GLP is used. The ID Number is maintained even when AC power is removed.



. Time and Date Function complies with GLP and Interval Weighing in the Data Memory Function.



· Data Memory Function 200 PCS Weigh Data. (GH Models also offer choices of 100 PCS Weigh Data with T&D, or 50 Sets of Calibration Data.)



 Automatic Counting Accuracy Improvement for continuous recalculation and update of average piece weight ensures optimum count accuracy even with very small parts.



- ON - Auto Power On Function Just plug in the AC adapter and the Balance turns itself on.



. National Type Evaluation Program (model HR-60 only).



. Underhook Capability for Density Measurement and weighing of large or magnetic materials.

## Options and Accessories:

AD-8920	Remote Display	GH-29	Bluetooth® (wireless) Adapter for GH and HRi Models	
AD-8922	Remote Controller	GR-29	Bluetooth® (wireless) Adapter for	
AD-1653	Density Determination Kit	GR-29	GR Models	
AD-1682	Rechargeable Battery Pack (Ni-MH, external)	HR-29	Bluetooth® (wireless) Adapter HR-60/120/200	
AD-1683	Static Eliminator	AD-100-2	Anti-Theft Device	
AD-1191	Compact Printer with Time & Date	CC:103E	Carrying Case (for HR-60, HR-120, HR-200 only)	
AD-8121B	Compact Printer with Time,		The 200 only)	
	Date and Statistics	HR-03	RS-232C is standard for all HR-I, GH & GR Models	
AD-8118A	Universal Printer		GH & GR Models	
AD-8118B	Multi-Function Printer	HR-05	20mA Current Loop Interface; (HR-60, HR-120 & HR-200 only)	
Win-CT	Data Collection Software	HR-09	Rechargeable Battery Pack (internal, for HR-60, HR-120 & HR-200 only)	



### AD-1683 Static eliminator

AD-1683 static eliminator, which incorporates a high-voltage power source, is a DC power-operated small-size device which can eliminate static electricity from charged objects without the need of an external high-voltage power source. Since this static eliminator is compact and lightweight with no fan (no breeze is produced), and requires no high-voltage wiring, it is very easy to handle. Being of a DC type, it has a remarkable ability for generating ions.



#### AD-8922 Remote controller

AD-8922 is a remote controller that can be connected to certain A&D weighing instruments in order to display weighing data and control the weighing instrument with key operation. (Access to the internal setting of weighing instrument is not allowed.)

	AD-8922 Key Functions							
Access Device	ON : OFF	CAL	SAMPLE	PRINT	MODE	RE-ZERO		
GH, GP, GX, GX-K	Turns the display on and off	Calibrates using	Turns the minimum weighing value on and off #1)	Output weighing data to an	Switches the weighing unit #3)	Returns weighing value to zero (tare)		
GR		Internal mass						
AD-4212, EK-H, GF, GF-K HR, HR-I		-						
EK-i, EW-i		-	-	external				
EK-G, EW-G, FC-I, FC-SI, FG, FP, FS, FS-KL, HV-G, HV-WP, HW-G, HW-WP	-	-	=	device #2)	=	_		



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