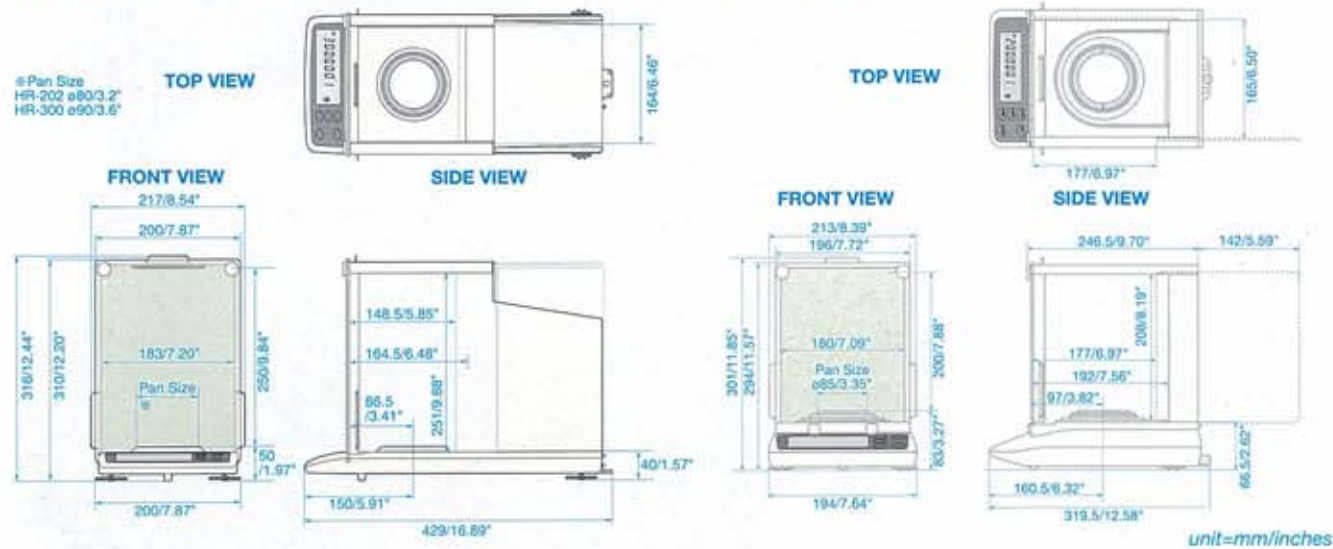


Physical Dimensions

HR-202/300

HR-200/120/60



Specifications

Capacity/Resolution		HR-202	HR-300	HR-200	HR-120	HR-60
Gram	(g)	$210 \times 0.0001 / 42 \times 0.00001$	310×0.0001	210×0.0001	120×0.0001	60×0.0001
	(mg)	$210000 \times 0.1 / 42000 \times 0.01$	310000×0.1	210000×0.1	120000×0.1	60000×0.1
Decimal Ounce	(oz)	$7.4 \times 0.00001 / 1.4 \times 0.000001$	10×0.00001	7.4×0.000005	4.2×0.000005	2.1×0.000005
Troy Ounce	(ozt)	$6.7 \times 0.00001 / 1.3 \times 0.000001$	9.9×0.00001	6.7×0.000005	3.8×0.000005	1.9×0.000005
Pennyweight	(dwt)	$135 \times 0.0001 / 27 \times 0.00001$	199×0.0001	135×0.0001	77×0.0001	38×0.0001
Carat	(ct)	$1050 \times 0.001 / 210 \times 0.0001$	1550×0.001	1050×0.001	600×0.001	300×0.001
Momme	(mom)	$56 \times 0.0001 / 11 \times 0.00001$	82×0.0001	56×0.00005	32×0.00005	16×0.00005
Grain Unit	(GN)	$3240 \times 0.002 / 648 \times 0.0002$	4784×0.002	3240×0.002	1851×0.002	925×0.002
Tola	(t)	$18 \times 0.00001 / 3.6 \times 0.000001$	26×0.00001	18×0.00001	10×0.00001	5×0.00001
Tael	(TL)	$5.5 \times 0.00001 / 1.1 \times 0.000001$	8.2×0.00001	5.5×0.000005	3.1×0.000005	1.5×0.000005
Percentage Min Div.		0.01%, 0.1% or 1% (auto prompt)				
Counting Min Weight		0.1mg				
Linearity		$\pm 0.0002 / \pm 0.00003\text{g}$	$\pm 0.0003\text{g}$	$\pm 0.0002\text{g}$		
Repeatability/Std. Dev.		0.0001/0.00002g	0.0002g	0.0001g		
Stabilization Time		3.5/8 seconds(typically)	3.5 seconds(typically)	3 seconds (typically)		
Sensitivity Drift		$\pm 2\text{ppm}/^{\circ}\text{C}(10^{\circ}\text{C}\sim 30^{\circ}\text{C}/50^{\circ}\text{F}\sim 86^{\circ}\text{F})$				
Display Refresh		5 times per second /10 times per second				
Pan Size		$\varnothing 80\text{mm}/3.2\text{inches}$	$\varnothing 90\text{mm}/3.6\text{inches}$	$\varnothing 85\text{mm}/3.3\text{inches}$		
Physical Dimensions	mm	217 (W) $\times$ 429 (D) $\times$ 316 (H)		213(W) $\times$ 319(D) $\times$ 301(H)		
	inches	8.5 (W) $\times$ 16.9 (D) $\times$ 12.4 (H)		8.4(W) $\times$ 12.6(D) $\times$ 11.9(H)		
Breeze Break Dimensions	mm	183 (W) $\times$ 164 (D) $\times$ 250 (H)		180(W) $\times$ 192(D) $\times$ 200(H)		
	inches	7.2 (W) $\times$ 6.5 (D) $\times$ 9.8 (H)		7.1(W) $\times$ 7.5(D) $\times$ 7.9(H)		
Operating Temperature		5°C~40°C/41°F~104°F RH less than 85%				
Weight		Approximately 8.0kg/ 17.6 lb		Approximately 5.7kg/ 12.5 lb		
Calibration Mass (Optional)		100g/200g	200g/300g	100g/200g	50g/100g	50g
Power		100, 120, 220, 240 VAC (AC Adaptor) 50Hz/60Hz			100, 120, 220, 240 VAC (AC Adaptor) 50Hz/60Hz 10 hours continuous operation with rechargeable battery pack (option)	
Standard Accessories		Manual, AC Adaptor, Protective Cover				

Options

- OP-03 — Serial Interface (RS-232C/Current Loop)
- OP-05 — Serial Interface (Current Loop)
- OP-09 — Rechargeable Battery Pack (NiMH)
(Only for HR 200/120/60)

Accessories

- AD-1653 — Density Determination Kit
- AD-8121 — Multi-Function Printer
- AD-8118B — Universal Printer
- AD-8524B — Keyboard Adaptor (for IBM Compatible PC)
- AD-8918 — External Display

Specifications are subject to change without notice.

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A&D Company, Limited

3-23-14 Higashi-Ikebukuro, Toshima-ku, Tokyo 170-0013 JAPAN
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http://www.aandd.jp

A&D ENGINEERING, INC.

1555 McCandless Drive, Milpitas, CA. 95035 U.S.A.
Telephone: [1] (408) 263-5333 Fax: [1] (408) 263-0119

A&D MERCURY PTY. LTD.

32 Dew Street, Thebarton, South Australia 5031 AUSTRALIA
Telephone: [61] (8) 8301-8100 Fax: [61] (8) 8352-7409

A&D INSTRUMENTS LTD.

Unit 24/26 Blacklands Way Abingdon Business Park,
Abingdon, Oxon OX14 1DY United Kingdom
Telephone: [44] (1235) 550420 Fax: [44] (1235) 550485

(German Sales Office)

Große Straße 13 b 22926 Ahrensburg GERMANY
Telephone: [49] (0) 4102 459230 Fax: [49] (0) 4102 459231

A&D KOREA Limited

Manhattan Bldg. 8F, 36-2 Yoido-dong, Youngdeungpo-gu, Seoul, KOREA
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* HR-ADCC-13-HO10-06203

HR Series

Analytical Balances

Compare... Price · Performance · Value
There's none better!

HR-202

210g × 0.1mg
42g × 0.01mg

HR-300

310g × 0.1mg

HR-200

210g × 0.1mg

HR-120

120g × 0.1mg

HR-60

60g × 0.1mg

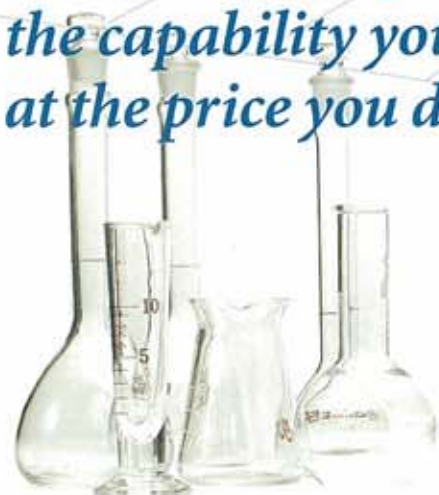


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Every A&D balance is designed for maximum performance. The HR series gives you the capability you need, at the price you deserve.



0.01mg Semi-Micro Dual Range Weighing

Automatically selects ultra fine 0.01mg resolution in the 0 - 42g range.



Simple Operation

Perform any operation with simple, clearly marked key entry.

Adapts to Your Environment

Mode Key: Changes weighing unit and alters condition of response to immediately adapt to changing environmental conditions.

Zero Point Calibration: Calibrates zero independently of span.

Selectable Calibration Mass capability: Corrects for errors in calibration weight.

Wide range of software parameters: Controls reaction to environment and communications output.

Range Key: Disables least significant digit for better display stability in unstable areas.

Strong Construction: Aluminum alloy that won't chip, crack or wear out for many years of trouble free use.

Greatest Flexibility

- Wide range of capacity/resolution models 42g/0.01mg ~ 310g/0.1mg
- Multiple weighing modes.
- Underhook capability for density measurement and weighing magnetic material.
- System Diagnostics provides error signals advising of: Low Battery, Overload Error, Weighing Pan Error, Power Failure Error, Stability Error, Digital Re-Zero Error, Zero-point Error and Calibration Errors.
- Digital Tare Capability: Allows manual or computer input of a tare weight. Use in wide range of tracking studies, such as daily weight gain/loss measurements in test animals, standard deviation, etc. Or the input of tare weights.
- Optional battery pack for portability and use in areas with low power problems. (Only for HR-200, 120 and 60)

Balance ID number allows Calibration output verification

Allows GLP or LIMS balance management by outputting the ID number and weight used to calibrate the balance, to A&D's AD-8121 printer or computer, which then can print date, time, balance ID number and calibration weight.

```
MODEL    HR-200
S/N      12345678
ID        1000  -A
DATE     01/01/00
11:18:30 AM
CALIBRATED
+000.0000  g
+200.0002  g
CAL. WEIGHT
```

SIGNATURE

Print format for verifying the calibration



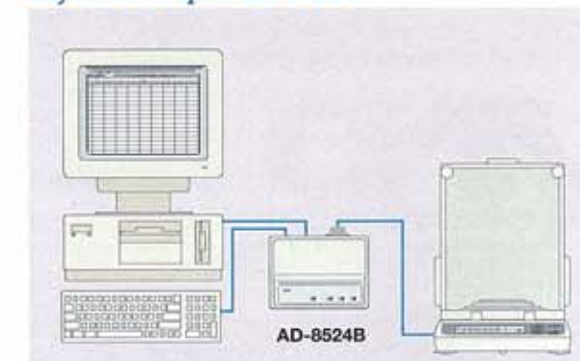
Optional Internal Rechargeable Battery OP-09 (Only for HR-200, 120 and 60)



Density Determination Kit AD-1653



Keyboard Adaptor AD-8524B



Input numerical data into a spreadsheet program.