

GH

*Analytical
Semi-Micro Balances*



GH-252

250g x 0.1mg
101g x 0.01mg

GH-202

220g x 0.1mg
51g x 0.01mg

GH-300

320g x 0.1mg

GH-200

220g x 0.1mg

GH-120

120g x 0.1mg

HR-202i

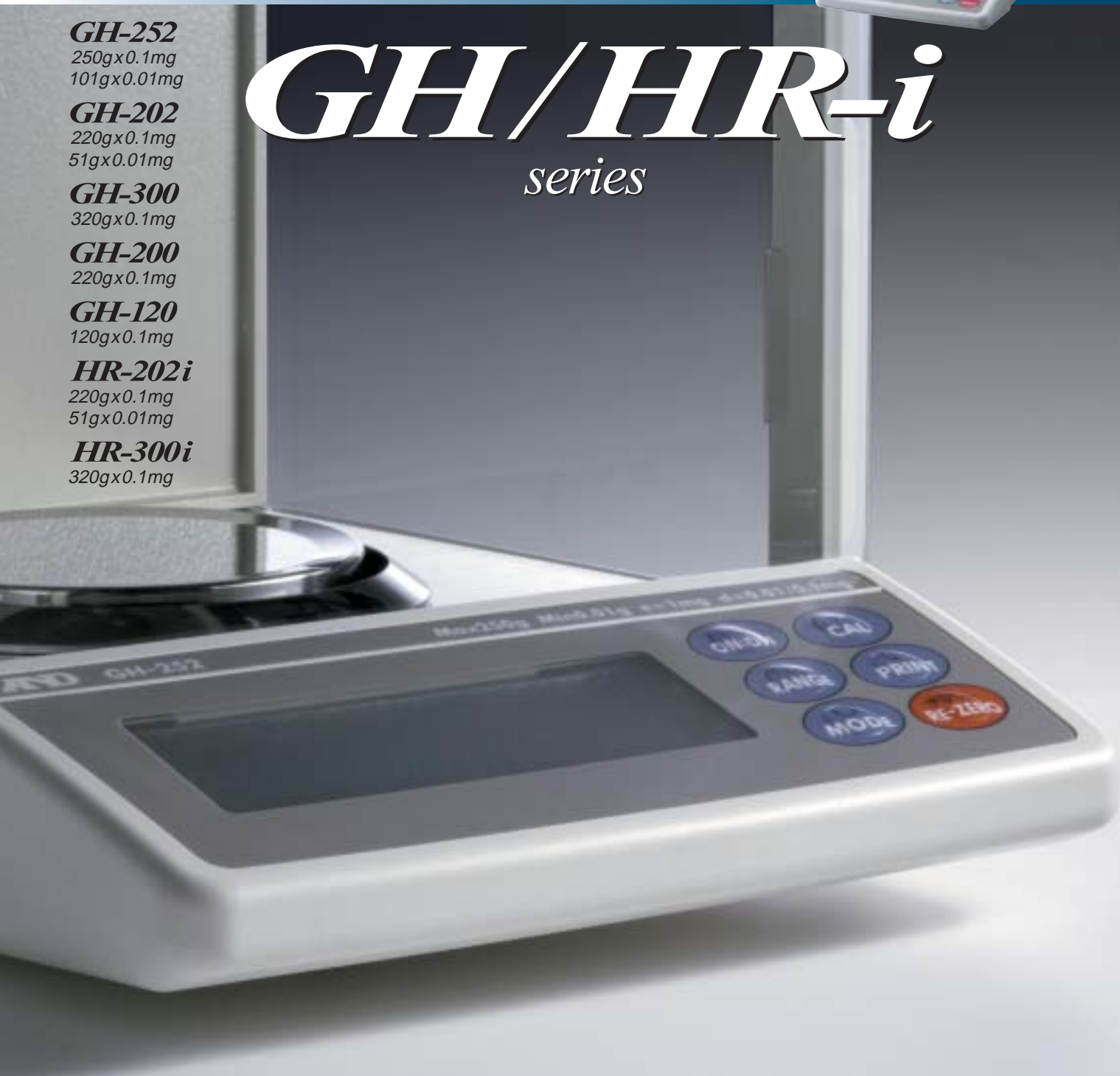
220g x 0.1mg
51g x 0.01mg

HR-300i

320g x 0.1mg

GH/HR-i

series



AND ...Clearly a Better Value
A&D Company, Limited
<http://www.aandd.jp>

High Performance up to 101g (GH-252), 0.01mg Sensitivity Automatic Self-Calibration (GH) and Ergonomic Design Ethernet interface (GH-08) with WinCT-Plus software multiple GH models possible expanding your Local Area Network

Motor-driven Internal Calibration (GH models only)

The GH internal calibration with an internal mass saves time and money. External calibration requires a great deal of skill, time and an expensive external mass. With our internal calibration with internal mass, the balance is calibrated very quickly.

■ Automatic Self Calibration (GH models only)

Self-calibrates automatically when the balance detects ambient temperature changes.

■ One Touch Automatic Calibration (GH models only)

Allows you to calibrate the balance on demand with just the push of a button.

Standard RS-232C

Incorporates bi-directional communication with a PC, printer or other peripheral device.

Multiple Weighing Units

Uses programmable or standard units of measurement: g, mg, PCS (with ACAI* function), %, oz, ozt, ct, dwt, GN, tl, etc.

*ACAI (Automatic Counting Accuracy Improvement)

Data Memory Function (GH models only)

200 PCS Weighing data without date and time

100 PCS Weighing with date and time

50 PCS Calibration history data

GLP/GMP/GCP/ISO Compliance

Allows GLP or LIMS balance management by outputting the Balance ID number and data used to calibrate the balance. This data can be output to A&D's AD-8121B printer or a computer, indicating date, time, Balance ID number, serial number and calibration data.

ID Number

The balance ID number can be set. It is used to identify the balance when GLP in use.

The ID number is memorized and maintained once it is fixed, even when the AC adapter is removed.

Auto Power On Function

Plug in the unit and it turns itself on without having to press the ON/OFF key.

Time & Date (GH models only)

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

Interval Time Setting (GH models only)

Weighing intervals of 2, 5, 10, 30 seconds and 1, 2, 5, 10 minutes in the Data Memory Function.

Standard Underhook

Ideal for density determination and weighing magnetic substances.

Auto Re-Zero Function

Re-zeroes automatically after data output.

Standard Windows Communication Tools Software

A free copy of WinCT - A&D's powerful and flexible data collection software tool for virtually instant connection to a PC and a network of other devices.

Ethernet Interface (GH-08) with WinCT-Plus software (CD-ROM)

WinCT-Plus software makes it possible for the user to easily set up an IP address, subnet mask etc. The user can also send commands to control and acquire data from multiple GH balances.

	A & D
MODEL	GH-308
S/N	01234567
ID	LAB-0123
DATE	2004/07/01
TIME	12:34:56
CALIBRATED(INT.)	
SIGNATURE	



Mini-Micro Weighing Sign makes data acquisition using Area Network System.



GHI/HR-i



AD-1683EX Static eliminator

The AD-1683EX static eliminator, which incorporates a high-voltage power source, is a DC power-operated compact 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. It can generate ions very easily because it is a DC type.

Accessories

AX-054016580-S Discharge Electrode Pin



Options

AD8922-01 BCD Output
AD8922-04 Comparator Output
AD8922-05 Current Loop Input
AD8922-06 Analog Output (0-1V)

AD-8922 Remote controller

The 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 using a keypad. (Access to the internal setting of a weighing instrument is not possible.)

Access Device

AD-8922 Key Functions

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

#1) Excluding PCS and % mode. #2) When the weighing machine is in stream mode, and AD-8922 is in key mode. #3) Excluding AD-4212

GH/HR-i Series Specifications

		GH-252	GH-202	GH-300	GH-200	GH-120	HR-202i	HR-300i
Gram	(g)	250x0.0001/101x0.00001	220x0.0001/51x0.00001	320x0.0001	220x0.0001	120x0.0001	220x0.0001/51x0.00001	320x0.0001
	(mg)	250000x0.1/101000x0.01	220000x0.1/51000x0.01	320000x0.1	220000x0.1	120000x0.1	220000x0.1/51000x0.01	320000x0.1
Decimal Ounce (oz)		8.82x0.00001/3.56x0.000001	7.76x0.00001/1.80x0.000001	11.29x0.00001	7.76x0.00001	4.23x0.00001	7.76x0.00001/1.80x0.000001	11.29x0.00001
Troy Ounce (ozt)		8.04x0.00001/3.25x0.000001	7.07x0.00001/1.64x0.000001	10.29x0.00001	7.07x0.00001	3.86x0.00001	7.07x0.00001/1.64x0.000001	10.29x0.00001
Pennyweight (dwt)		160.8x0.0001/64.9x0.00001	141.5x0.0001/32.8x0.00001	205.8x0.0001	141.5x0.0001	77.2x0.0001	141.5x0.0001/32.8x0.00001	205.8x0.0001
Carat (ct)		1250x0.001/505x0.0001	1100x0.001/255x0.0001	1600x0.001	1100x0.001	600x0.001	1100x0.001/255x0.0001	1600x0.001
Momme (mom)		66.7x0.0001/26.9x0.00001	58.7x0.0001/13.6x0.00001	85.3x0.0001	58.7x0.0001	32.0x0.0001	58.7x0.0001/13.6x0.00001	85.3x0.0001
Grain Unit (GN)		3858x0.002/1559x0.0002	3395x0.002/787x0.0002	4938x0.002	3395x0.002	1852x0.002	3395x0.002/787x0.0002	4938x0.002
Tola (t)		21.43x0.00001/8.66x0.000001	18.86x0.00001/4.37x0.000001	27.44x0.00001	18.86x0.00001	10.29x0.00001	18.86x0.00001/4.37x0.000001	27.44x0.00001
Tael (TL)		6.67x0.00001/2.69x0.000001	5.87x0.00001/1.36x0.000001	8.53x0.00001	5.87x0.00001	3.20x0.00001	5.87x0.00001/1.36x0.000001	8.53x0.00001
Repeatability (Standard Deviation)		0.1mg / 0.03mg	0.1mg / 0.02mg	0.2mg	0.1mg	0.1mg	0.1mg / 0.02mg	0.2mg
Linearity		±0.2mg / ±0.10mg	±0.2mg / ±0.03mg	±0.3mg	±0.2mg	±0.2mg	±0.2mg / ±0.03mg	±0.3mg
Stabilization Time (typical at FAST)		Approx. 3.5 sec (0.1mg) / 8 sec (0.01mg)		Approx. 3.5 seconds			Approx. 3.5 sec (0.1mg) / 8 sec (0.01mg)	Approx. 3.5 seconds
Sensitivity Drift (10°C to 30°C)		±2ppm/°C (when automatic self calibration is not used)						
Operating Temperature		5°C to 40°C (41 F to 104 F), 85%RH or less (no condensation)						
Display Type		Liquid Crystal Display (LCD)						
Display Refresh Rate		5 times/second or 10 times/second						
Counting Mode	Minimum unit mass	0.1mg						
	Number of samples	10, 25, 50 or 100 pieces						
Percent Mode	Minimum 100% reference mass	10.0mg						
	Minimum 100% display	0.01%, 0.1%, 1% (Depends on reference mass stored)						
Standard Serial I/F		RS-232C interface with Windows Communication Tools (WinCT : included as CD-ROM)						
Calibration Weights to be used for External Calibration		200g	300g	200g	100g	200g	300g	
		100g	200g	100g	50g	100g	200g	
		50g	100g			50g	100g	
		20g				20g	50g	
Weighing Pan		Ø90mm						
External Dimensions		217(W) x 442(D) x 316(H)mm						
Power		Confirm that the adapter type is correct for the local voltage and power receptacle (Approx. 11VA)						
Weight		Approx. 8.2kg(GH) / 7.9kg(HR-i)						
Standard Accessories		WinCT in CD-ROM, Manual, AC Adapter						

Options

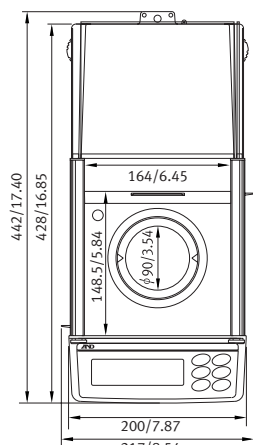
GH-08 Ethernet Interface

Accessories

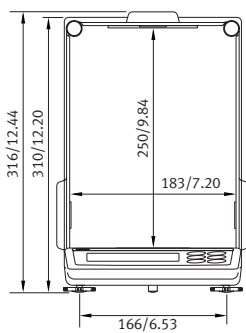
AD-1653 Density Determination Kit
 AD-1683EX Static Eliminator
 AD-8121B Dot Matrix Compact Printer
 AD-8922 Remote Controller
 AD-8920 Remote Display
 AX-KO 2466-200 RS-232C Cable(9P-9P,2m)



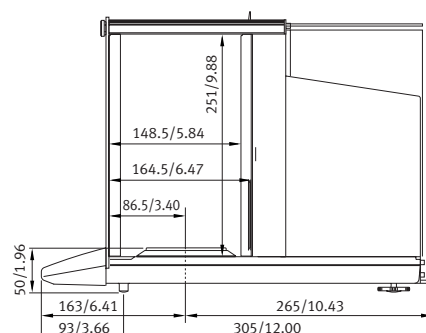
Dimensions (mm/inches)



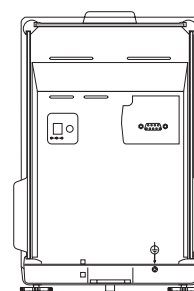
Top View



Front View



Side View



Rear View

AND ...Clearly a Better Value

A&D Company, Limited

3-23-14 Higashi-Ikebukuro, Toshima-ku, Tokyo 170-0013 JAPAN
 Telephone:[81](3) 5391-6132 Fax:[81](3) 5391-6148
 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
 Telephone:[82](2) 780-4101 Fax:[82](2) 782-4280