

GH

Analytical
Semi-Micro Balances



GH-252

250gx0.1mg
101gx0.01mg

GH-202

220gx0.1mg
51gx0.01mg

GH-300

320gx0.1mg

GH-200

220gx0.1mg

GH-120

120gx0.1mg

HR-202i

220gx0.1mg
51gx0.01mg

HR-300i

320gx0.1mg

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 Semi-Micro Weighing Automatic Self-Calibration (GH) and Ergonomic Design Ethernet interface (GH-08) with WinCT-Plus software makes data acquisition using multiple GH models possible expanding your Local Area Network System.

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.

	A & D
MODEL	GH-300
S/N	01234567
ID	LAB-0123
DATE	2007/10/03
TIME	12:34:56
CALIBRATED<INT.>	
SIGNATURE	

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.



GH/HIR-i

- | | | | | | | | | | | | | |
|-------------|-------------------|---------------|-------------------|---------------------|---------------|-----------|----------|------------------|----------------------|-----------|------------------------|----------------------|
| | | | | | | | | | | | | |
| LCD Display | RS-232C Interface | GLP Compliant | Counting Function | Percentage Function | Auto Power ON | Underhook | Software | EC Type Approval | Internal Calibration | Quick USB | LAN-Ethernet Interface | External Calibration |
| | | | | | | | | (GH) | (GH) | (GH) | (GH) | (HR-i) |

Quick USB Interface (GH-02)

Easy-to-use optional USB interface, with no driver or software installation necessary, for transfer of weighing data to a computer (Unidirectional communication from a balance to a PC only. Please use the standard RS-232C interface for sending commands from a PC to the balance.)

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.



AD-1683 Static eliminator

The AD-1683 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-054016580-5 Discharge Electrode Pin

GH/HR-i Series Specifications

	GH-252	GH-202	GH-300	GH-200	GH-120	HR-202i	HR-300i
Weighing capacity	250g / 101g	220g / 51g	320g	220g	120g	220g / 51g	320g
Minimum weighing value	0.1mg / 0.01mg		0.1mg			0.1mg / 0.01mg	0.1mg
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		
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-02 Quick USB interface with cable

GH-08 Ethernet interface

* GH-02 and GH-08 cannot be used at the same time.

Accessories

AD-1653

Density Determination Kit

AD-1682

Rechargeable Battery Unit (Maximum operating time: 8 hours)

AD-1683

Static Eliminator

AD-1684

Electrostatic Fieldmeter

AD-1687

Weighing environment logger

AD-1688

Weighing Data Logger

AD-1689

Tweezers for Calibration Weight

AD-8121B

Dot Matrix Compact Printer

AD-8526

Serial/Ethernet converter

AD-8527

Quick USB Adapter

AD-8920A

Remote Display

AD-8922A

Remote Controller

AX-KO2466-200

RS-232C Cable (9P-9P, 2m)

AX-USB-9P

Serial/USB Converter

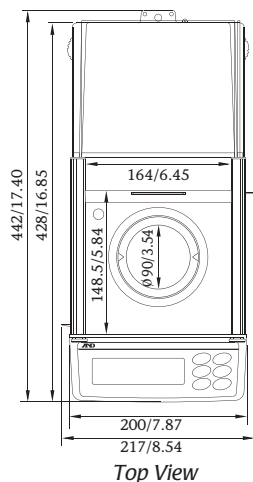


AD-8121B

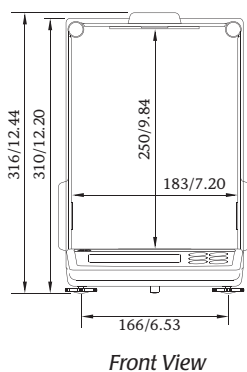


AD-1687

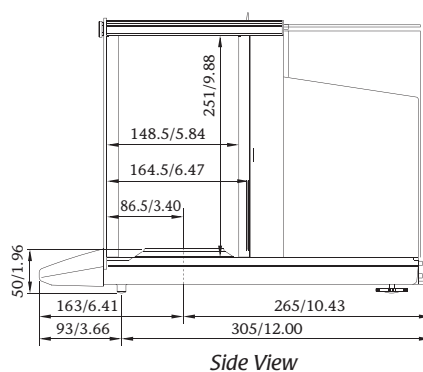
Dimensions (mm/inches)



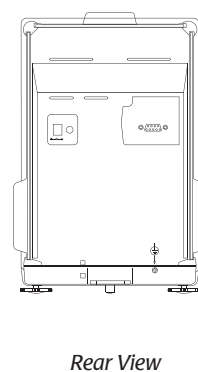
Top View



Front View



Side View



Rear View

A&D

...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.aand.jp

A&D ENGINEERING, INC.

1756 Automation Parkway, San Jose, CA 95131 U.S.A.
Telephone:[1](408) 263-5333 Fax:[1](408) 263-0119

A&D Australasia 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

A&D RUS CO, LTD.

Vereyskaya str.17, Moscow, 121357 RUSSIA
Telephone: [7] (495) 937-33-44 Fax: [7] (495) 937-55-66

A&D Instruments India Private Limited

509 Udyog Vihar Phase V
Gurgaon-122 016, Haryana, INDIA
Telephone: [91](124) 471-5555 Fax: [91](124) 471-5599