A&D WEIGHING

TOPLOADER BALANCES

GX/GF SERIES

A&D WEIGHING
...Clearly a Better Value

GX/GF SERIES

The World's Most User-Friendly Balances...

Our revolutionary Super Hybrid Sensor (SHS) technology improves response speed, accuracy and minimizes maintenance costs. SHS combines the best of magnetic force restoration and single point parallelogram load sensing technologies. Its unique design provides the fastest response speed in its class-just 1 second! And if the time ever comes when the SHS needs repair, you just replace one of three parts-there is no need to replace the whole sensor! This translates to Minimum Maintenance Costs.

(An additional benefit of our new SHS is that the GX automatically performs self calibration using the internal mass when the balance detects ambient temperature changes.)

Super Hybrid Sensor

SHS
Super Hybrid Sensor

Motor-driven Internal Calibration

Internal Calibration

FDCW Full Digital Calibration

Internal Calibration CAL

The GX 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, there is no downtime while the technician calibrates the balance.

- **Automatic Self Calibration** — Self-calibrates automatically when the balance detects ambient temperature changes.
- **One Touch Automatic Calibration** — Lets you calibrate the balance on demand with just the push of one button.

- **Calibration is essential** for accuracy in weighing. For example, in high resolution balances, changes in sensitivity drift can be caused by changes in the ambient temperature. Take the GX 600 for example, the weight might change by ±0.010g with a change of 10°C. (Sample's weight: 500g)
- **The GX's internal calibration** mass is adjusted to an "OIML F1 class level." by the standard balance calibrated with an "OIML E2 class level mass". (The GX's internal calibration mass is not "the standard mass for legal metrology" nor "OIML's level of calibration mass." Instead it is the mass for adjustment.)

Just 1 Second — Ultra Fast Response Speed

- Ultra Fast Response Speed–Just 1 Second.* Ideal for installation on filling machines.
- Ultra High Performance with minimum maintenance costs.

Standard RS-232C

RS-232C STANDARD

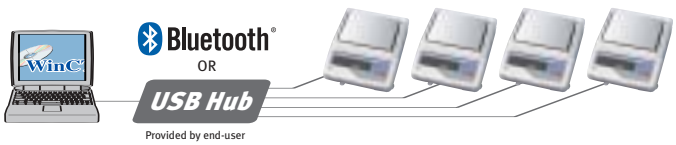
Incorporates bi-directional communication with a PC, printer or other peripheral device.

* On "FAST" setting

Standard Windows Communication Tools Software WinCT

WinCT

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.



Note: USB hub and USB/RS-232C converter must be provided by end-user.

TOPLOADABLE BALANCES

Splash Proof Keyboard and Display

Balances protected from dust and spills up to IP54 level

GLP/GMP/GCP/ISO Compliance

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

```
                A & D
MODEL        GX-2000
S/N         01234567
ID             ABCDEFG
DATE     2003/10/01
TIME        12:34:56
CALIBRATED<INT.>
SIGNATURE
```

Standard RS-232C

Bi-directional communication with a PC or connects directly to a printer

Commands

A PC can control the balance by sending commands to the balance.

- Commands to query weighing data
- Commands to control the balance
- Commands to control the memory function
- Commands to control the comparator function

ID Number

The balance ID number can be set. It is used to identify the balance when GLP is used. The ID number is memorized and maintained once it is fixed, even if the AC adapter is removed.

Display Auto Power Off Function

Display turns off after 10 minutes of inactivity
(can be disabled when undesired)

Data Memory Function (Patent Pending)

Format the Data Memory Function for:

GX
- 200 sets of weighing data
- 100 sets of weighing data with Time & Date
- 50 sets of GLP Data–Time & Date, Calibration Data, ID number and Serial number
- 20 sets of Unit Weight for Counting Mode

GF
- 40 sets of weighing data
- 20 sets of Unit Weight for Counting Mode

Time & Date (GX only)

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

Auto Self Checking

Automatically checks itself when setting the Automatic Adjustable Environment

Standard Underhook

Ideal for density determination and weighing magnetic substances.

Density Measurement Function

Picture shown with GX-13
Density Measurement Kit

Interval Time Setting

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

Auto Power On Function

Plug it in and it turns itself on without pressing ON/OFF key

Auto Re-Zero Function

Re-Zeroes automatically after data output

Large Square Weighing Pan

Standard large square weighing pan on all models
128 x 128mm for 0.001g resolution models
165 x 165 mm for 0.01g and 0.1g resolution models

Multiple Weighing Units & Programmable Unit

Uses Programmable or standard units of measure (g, ct, dwt etc.)

Front Air Bubble Leveling

Easily check the balance's level from the front

Quick Reference Card

A fast, convenient operating guide installed at the bottom of the balance

GX/GF series

GX/GF Series Specifications

		GX-200		GX-400	GX-600	GX-800	GX-1000		GX-2000		GX-4000	GX-6100	GX-6000	GX-8000
		GF-200*	GF-300*	GF-400	GF-600	GF-800	GF-1000	GF-1200*	GF-2000*	GF-3000	GF-4000	GF-6100	GF-6000*	GF-8000
Weighing capacity		210g	310g	410g	610g	810g	1010g	1210g	2100g	3100g	4100g	6100g	6100g	8100g
Minimum weighing value		0.001g						0.01g					0.1g	
Repeatability (Standard Deviation)		0.001g						0.01g					0.1g	
Other units of measure		Decimal ounce, Troy ounce, Pennyweight, Carat, Momme, Grain unit, Pound, Pound/Ounce												
Linearity		±0.002g			±0.003g	610g	610g	±0.02g				±0.03g	±0.1g	
Stabilization time (typical at FAST)		Approx. 1 second										Approx. 1.5 seconds	Approx. 1 second	
Sensitivity drift (10°C to 30°C/50°F-80°F)		±2ppm/oC (When automatic self calibration is not used)											±5ppm/°C (auto-self calibration OFF)	
Operating temperature		5°C to 40°C (41°F to 104°F), 85%RH or less (No condensation)												
Sensing method		Super Hybrid Sensor (SHS) *SHS: Patent issued and pending												
Display type		Vacuum Fluorescent Display (VFD)												
Display refresh rate		5 times/second or 10 times/second												
Counting mode	Minimum unit mass	0.001g						0.01g					0.1g	
	Number of samples	10, 25, 50 or 100 pieces												
Percent mode	Minimum 100% reference mass	0.100g						1.00g					10.0g	
	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)												
Weighing pan		128 x 128mm (5.04 x 5.04inch)						165 x 165mm (6.50 x 6.50inch)						
Calibration		Motor-driven Internal Calibration (GX only)												
External dimensions		210(W) x 317(D) x 86(H)mm (8.27 x 12.48 x 3.39inch)												
AC adapter		Confirm that the adapter type is correct for the local voltage and power receptacle												
Power consumption		Approx. 11VA (supplied by AC adapter)												
Net weight		Approx. 4.6kg(GX)/3.8kg(GF)						Approx. 5.1kg(GX)/4.3kg(GF)						

*NTEP Class II versions available on request

Notes: The internal mass is equal to (approximately) 500grams. Standard breeze break included for GX-200/400/600 and GF-200/300/400/600

Options

GX-04* Comparator Output with a Buzzer/RS-232C/ Current Loop Output

GX-06* Analog Output/Current Loop Output

GX-10 Breeze Break for GX-200/400/600 and GF-200/300/400/600

GX-11 Glass Breeze Break for GX-2000/4000/6100/ 6000/8000 and GF1200/2000/3000/4000/ 6100/6000/8000

GX-12 Animal weighing pan for GX-400/600/2000/4000/ 6100/6000/8000 and GF-300/400/600/1200/2000/ 3000/4000/6100/6000/8000

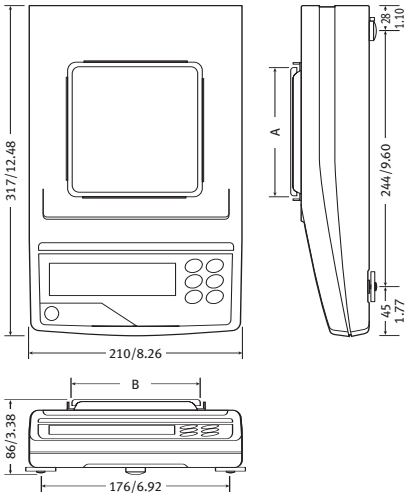
GX-13 Density Determination Kit for GX-200/400/600 and GF 200/300/400/600

* 04& 06 cannot co-exist * Factory installed option

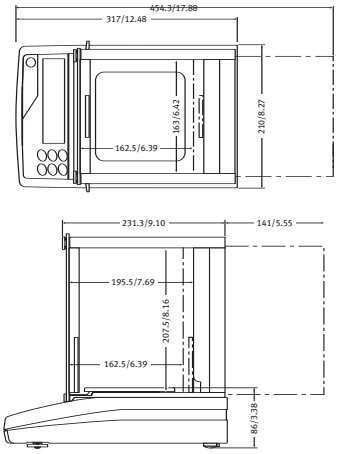
Accessories

AD-8121A	Dot Matrix Compact Printer
AD-8118B	Universal Printer
AD-8920	Remote Display
AD-1682	Rechargeable Battery Unit (Maximum operating time: 8hours)
AX-KO1710-200	RS-232C Cable (25P-9P)
AX-SW-128	Foot Switch
AX-073003691-S	Dust Cover for GX-200/400/600 and GF-200/300/400/600
AX-073003692-S	Dust Cover for GX-2000/4000/6100/ 6000/8000 and GF1200/2000/3000/ 4000/6100/6000/8000

Physical Dimensions (mm/inches)



Dimensions With Optional Glass Breeze Break (mm/inches)



Pan Size (mm/inches)

Model	A	B
GX-200/400/600 GF-200/300/400/600	128/5.03	128/5.03
GX-2000/4000/6100/6000/8000 GF-1200/2000/3000/4000/6100/6000/8000	165/6.49	165/6.49

Approx. 1 second

Specifications subject to change without notice.

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1555 McCandless Drive
Milpitas, CA 95035
(800) 726-3364 or (408) 263-5333
Email: scales@andweighing.com
www.andweighing.com

ISO 9002 CERTIFIED

LIT:GX/GF 05/06