TOPLOADER BALANCES









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.)





Motor-driven Internal Calibration

Internal Calibration



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.



RS 232C

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

Standard Windows Communication **Tools Software 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

MODEL

DATE

SIGNATURE

2003/

12:34:56 ALIBRATED (INT

FDCW

FDCW

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.

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 guery 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

Full Digital Calibration **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

FDCU

アロこじ

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 FDCW

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		71

FDCW

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

Front Air Bubble Leveling

& Programmable Unit

FDCU

Easily check the balance's level from the front

Quick Reference Card

A fast, convenient operating

of the balance

FDCW

guide installed at the bottom

GX/GF serves

GX/GF Series Specifications

		GX-200		GX-400	GX-600	GX-800	GX-1000	Ì	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 of	apacity	210g	310g	410g	610g	810g	1010g	1210g	2100g	3100g	4100g	6100g	6100g	8100g	
Minimum	veighing value			0.0	01g				0.01g					0.1g	
Repeatabil	ity (Standard Deviation)	Deviation) 0.001g				0.01g				0.1g					
Other units	of measure				Decimal or	unce, Troy our	ice, Pennyweig	ght, Carat, Mo	mme, Grain ui	nit, Pound, Po	und/Ounce				
Linearity		±0.002g ±0.003g 610g 610g ±0.02g			±0.03g	±0.1g									
Stabilizatio	on 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 c													
Operating	temperature		5°C to 40°C (41°F to 104°F), 85%RH or less (No condensation)												
Sensing m	ethod		Super Hybrid Sensor (SHS) *SHS: Patent issued and pending												
Display typ	e	Vacuum Fluorescent Display (VFD)													
Display ref	resh rate	5 times/second or 10 times/second													
Counting	Minimum unit mass	0.001g 0.01g					0.	1g							
mode	Number of samples	10, 25, 50 or 100 pieces													
Percent	Minimum 100% reference mass	0.100g			1.00g				10.0g						
mode	Minimum 100% display	0.01%, 0.1%, 1% (Depends on reference mass stored)													
Standard s	erial I/F	RS-232C Interface with Windows Communication Tools (WinCT: included as CD-ROM)													
Weighing p	oan	128 x 128mm (5.04 x 5.04inch) 165 x 165mm			55mm (6.50 x 6	(6.50 x 6.50inch)									
Calibration		Motor-driven Internal Calibration (GX only)													
External di	mensions	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 con	sumption	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

317/12.48

86/3.38

1

Model

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)

88

188

210/8.26

в

176/6.92

Pan Size (mm/inches)

GX-2000/4000/6100/6000/8000

GF-1200/2000/3000/4000/6100/6000/8000

GX-200/400/600 GF-200/300/400/600 1.10

4

÷5

128/5.03

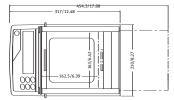
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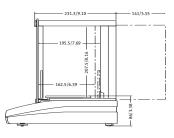
128/5.03

165/6.49

Approx. 1 second

Dimensions With Optional Glass Breeze Break (mm/inches)





Specifications subject to change without notice.

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