

## The World's

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.)







#### 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, the balance is calibrated very quickly.

- Automatic Self Calibration Self-calibrates automatically when the balance detects ambient temperature changes.
- One Touch Automatic Calibration Allows you to calibrate the balance on demand with just the push of a 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 with filling machines. \* "FAST" setting
Ultra High Performance with minimum maintenance costs.

#### Standard 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.

# Most User-Friendly



## v Balances...





Bright, bold, blue vacuum fluorescent display (VFD) that is virtually unmistakable from any viewing angle.

#### ANIMAL



Animal Weighing Mode allows you to quickly and accurately determine the weight of any live or unstable subject. Optional animal weighing pan (GX-12) is available



**Automatic Adjustable Environment Setting** Adapts to the most suitable Environment Response Setting automatically with one-touch key operation. The response annunciator displays "FAST", "MID"

Manual Response Adjustment can be set by pressing the MODE key and response speed can be adjusted to FAST, MID or SLOW.

and "SLOW." (GX)



Standard Comparator Function offers increased flexibility and compatibility for a vast number of applications. You can input a target weight and weigh heavier or lighter items using either the keyboard or by placing samples on the pan. Hi, OK or Lo will be indicated on the display to show the comparison results. (GX-04 Comparator output)



**Automatic Counting Accuracy** Improvement (ACAI) is a novel and useful approach to ensuring the utmost in performance when counting even the smallest of items. ACAI automatically updates and refines the average piece weight used to determine the total quantity.

Main Features

Display Auto Power Off Function Aluminum Die-Cast Case



Percentage Function facilitates effective and quick comparison of a sample or commodity against a known reference mass. Simply place an object on the pan to register its weight as 100%. Place another object on the pan to compare its weight in percentage mode.



Overall Capacity Indication is a unique and helpful feature. By indicating how much of the balance's capacity has been filled, the risk of overloading the balance is minimized.

#### **GX** series **GF** series SHS (Super Hybrid Sensor) Internal Calibration VFD Display WinCT **Data Memory Function** Automatic Adjustable Environment Setting (Manual) Auto Self Checking **Density Determination Function** Quick Reference Card Underhook Time & Date Function Large Square Weighing Pan **Comparator Function Animal Weighing** Capacity Indicator **ACAI** Counting Function Percentage Function Front Air Bubble Leveling Standard RS-232C GLP, GMP, GCP, ISO Compliance Data Output Splash Proof Keyboard and Display

#### Splash Proof Keyboard and Display

Balances protected from dust and spills

#### GLP 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-8121B printer or a computer, indicating date, time, Balance ID number, serial number and calibration data.



#### RS-232C

#### 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.

#### **◆OFF** 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



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	1100g	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	
Linearity		0.002g			0.003g			0.02g 0.0				0.03g	0.1g	
Stabilization time (typical at FAST)		Approx. 1second				Approx. 1.5 seconds		Approx. 1second			Approx. 1.5 seconds	Approx. 1second		
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		5times/second or 10times/second												
Counting mode	Minimum unit mass	0.001g						0.01g					0.1	g
	Number of samples	10, 25, 50 or 100pieces												
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 128 mm (5.04 x 5.04 inch)						165 x 165 mm (6.50 x 6.50 inch)						
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 (sup	plied by AC	adapter)					
Net weight		Approx. 4.6kg (GX)/3.8kg (GF) Approx. 5.1kg (GX)/4.3kg (GF)												

Notes: The internal mass is equal to (approximately) 500grams. EC Type Approval Confirmed (Approval No. UK2560) Standard Breeze break included for 1 mg Minimum weighing value models

#### **Options**

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

GX-06\* Analog Output/Current Loop Output

GX-10 Glass Breeze Break for 128 x 128mm weighing pan size models

GX-11 Glass Breeze Break for 165 x 165mm weighing pan size models

GX-12 Animal weighing pan

(not applicable for GX-200 and GF-200)

GX-13 Density Determination Kit for 128 x 128mm weighing pan size models

\* 04& 06 cannot co-exist

\* Factory installed option

#### Accessories

AD-8121B **Dot Matrix Compact Printer** AD-8118B Universal Printer AD-8920 Remote Display AD-8922 Remote Controller Rechargeable Battery Unit AD-1682 (Maximum operating time: 8hours)

AD-1683EX Static Eliminator AX-KO1710-200 RS-232C Cable (25P-9P)

AX-SW-128 Foot Switch

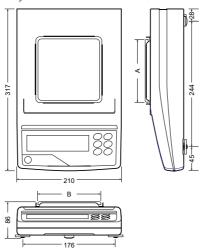
AX-073003691-S Dust cover for 128 x 128mm

weighing pan size models

AX-073003692-S Dust cover for 165 x 165mm

weighing pan size models

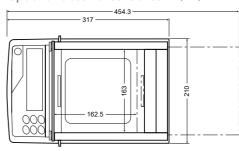
#### Phys ical Dimensions (mm)

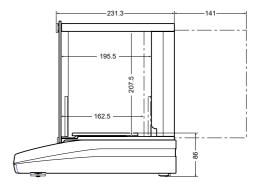


Pan size (mm)								
Model	Α	В						
GX-200/400/600/800/1000 GF-200/300/400/600/800/1000	128	128						
GX-2000/4000/6100/6000/8000 GF-1200/2000/3000/4000/6100/6000/8000	165	165						

Approx. 1 second

#### Dimensi ons With Optional Glass Breeze Break (mm)





Specifications subject to change for improvement without notice.

#### A&D Authorised Reseller



A DIVERSECO COMPANY