

APOLLO SERIES GX-A | GF-A Precision Balances

Taking Weighing Precision and Protection to New Heights



DISCOVER PRECISION

Advanced Technologies Providing Innovative Solutions

Smart SHS Technology

Innovati

A&D's Smart-Super Hybrid Sensor (SHS) technology is the foundation of the innovative solutions found in the Apollo Series. The Smart sensor improvements stem from better design, construction, and materials, resulting in better performance and turbo stabilization times of 1 second. This increases productivity for all weighing work-flows in both labs and production environments. Smart-SHS also gives higher maintainability with a reduced number of parts while still offering maintenance accessibility, unlike other Mono-type systems which only increase cost of ownership. A&D's easy eccentricity adjustment and hybrid design are two prime examples of this high maintainability. We execute for the highest performance, and keep our customer's bottom-line in mind.



Remarkable cost and time savings at the touch of a button.



Min-S Alert blinks

Electronically Controlled Load (ECL) Innovation

The operator simply holds the mode key to first perform a self diagnostic check and proceed to ECL where internally a repeatability test is performed without use of an external weight. This critically checks the stability of analog-to-digital conversion before applying a controlled load inside the balance (between 0.3% to 3% of the weighing capacity). It does this by altering the equilibrium state of the weigh sensor and takes 10 repeated measurements. The entire process takes only 1.5 minutes versus traditional repeatability procedures which can take up to 10 minutes, ultimately giving greater convenience and time savings to customers.

The ECL technology provides valuable information which *Auto Precision Assessment* (APA) smartly processes into meaningful, beneficial outcomes such as *Dia-Check, Standard Deviation, Quick Min-S*, and *Min-S-Alert*.

Dia-Check quickly gives users peace of mind to proceed with daily weighing routines, providing a critical pass or fail indication. A powerful, dynamic tool to diagnose, and verify balance performance.

ECL steps it up a notch by producing the most valuable information, the *Standard Deviation* (SD), allowing users to quickly assess the balance performance under any given environment. This is helpful to include in daily SOP checks.

SD also can determine the minimum sample weight with a feature called *QuickMin-S*. QuickMin-S helps to overcome challenges with handling small weights, accessibility to in-line systems, and in tough environmental conditions

ECL goes one step further allowing users to set the minimum sample weight limit and provides a real time alert with *Min-S-Alert*. Users always feel secure knowing they are in compliance of USP 41 and does not limit how often a minimum sample weight can be determined. This gives more flexibility to follow recommendations of USP 1251. What is so remarkable is this can be performed at the touch of a button, within minutes, in challenging conditions, without the need of an external calibration weight.

APOLLO SERIES

Factory Tough–Laboratory Precise

Impact Shock Detection (ISD) Innovation

Often balances can be damaged or errors can occur due to sharp impacts from automated machine loading or operators dropping material onto the pan. The Apollo series educates, prevents and documents such scenarios. ISD visually indicates the magnitudes of impact shocks that a weigh sensor receives at four different levels. It audibly beeps once at Level 3 and twice at Level 4 delivered through the feature of *Impact-Alert*.

This patented technology provides real-time feedback mechanisms that prevent the sensor from being damaged and can ultimately train and influence operator behaviors. ISD smartly strives for operators to have better weighing techniques, while also helping to program or modify loading in-line automated processes. Impact-Alert ensures the investment of the balance is protected, helps to extend the life of balance, reduce repair and replacement cost and ensure productivity can be maintained by reducing downtime. Real-time feedback prevents the sensor from being damaged.



No Impact Shock

Level 1

Level 2

Level 3

Level 4

ISD takes protection one step higher with **Shock-log** that documents the date, time, and shock level. This enables managers and quality officers to pinpoint the exact moment a critical shock occurred to quickly assess and fix critical failure to get operations back online.

Shock-log pinpoints the exact moment a critical shock occurred to quickly assess and fix critical failure to get operations back online

Overload Protection

The weight sensor is well protected against vertical and transverse static overloading. It won't break due to malfunction of the weighing system's actuator and the resulting excess "E" load. Additionally there are two leaf springs that support the weighing pan of the Apollo series also mitigate impact shocks significantly. A&D once again takes protection to heart ensuring the Apollo series is the same A&D strong, A&D tough you've come to know in labs and factories alike.



Leaf Springs

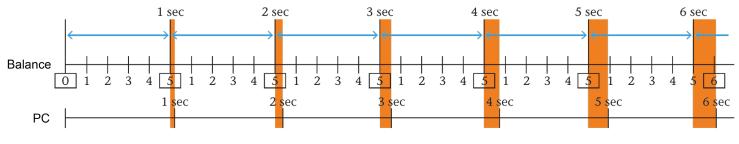
DISCOVER PRECISION

Keeping Your Devices in Sync for Better Accuracy & Precision

Flow Rate Display (FRD) Innovation

Many operators use a stopwatch or PC to determine a flow rate. FRD helps to streamline and improve both by offering a synced solution that improves accuracy and precision in filling or dosing applications. For example, the internal clocks of external devices are never in complete sync with precision balances. Therefore there is a time-clock disparity that is most noticeable when measuring and recording flow rates of pumps, feeders and other devices at short intervals^{*1}. Therefore command speed and refresh rate will cause the PC to intermittently produce irregular values or spikes even if the actual flow rate is constant.

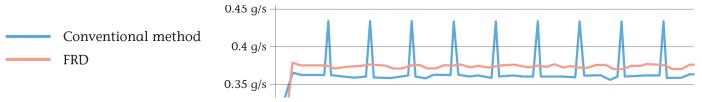
The Apollo series through an *FR-Cal* function calculates, displays, & outputs (WinCT-FRD) the mass flow rate, or the volume flow rate by entering the density of the material. Up to 10 densities can be saved to the device. Both the display refresh rate and interval (set between 1 second and 1 hour) are regulated by the same internal clock of the balance, making measurements free from the irregularity that rise from time clock disparity problem.



Time disparity of two different internal clocks

Now what is smart about FRD technology is that we can use a comparator function of *FR-Compare* to provide a feedback mechanism to the user if the flow rate is going too fast or too slow or indicate if flow rate is kept within the designated limits.

Lastly, if the worst happened with a power outage during the "loss-in-weight" measurement, the tare value is stored in our non-volatile memory. The remaining amount in the container can be displayed again and the application can continue through our *FR*-*Secure.*² This avoids loss of sensitive materials and lost time.



Flow rate measurement using FRD as opposed to the conventional method

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Protecting and Adhering to Good Data Management, Documentation and Compliance Practices

Quick Min-S

From the standard deviation obtained using ECL described earlier, the Apollo series also calculates and indicates the minimum weight at the installation location^{*3} in accordance with the United States Pharmacopeia (USP) standard.

GLP/GMP/GCP/ISO Compliant Output

For documentation requirements, the Apollo series can output its manufacturer, model, serial number, ID number, date + time, space for signature for calibration report, calibration test report, and title & end blocks for a series of weighing results.

Min-S Alert

To ensure that the measured sample quantity meets the minimum weight requirement, the Apollo series can display an alert until the sample quantity reaches the value entered as the minimum weight.

Password-Protect

Use of the balance can be password-protected for authorized individuals (up to 11 including one administrator)—the administrator can perform all operations including calibration while other users can make measurements only. Moreover, upon receiving a command to disable its keys, the balance becomes operable only by sending commands from an external device such as a PC.

Automatic Self-Calibration (ASC)

The GX-A can be set to calibrate itself automatically using its internal weight either (1) in response to change in ambient temperature to prevent error due to sensitivity drift, (2) at a set interval time, or (3) at predetermined (up to three) times of the day. Internal calibration can also be performed any time with one key press.

Universal Flexi Coms (UFC)

UFC lets you edit serial data output/printout format. With this function, label printing is also made possible by connecting the balance to a commercially-available printer⁻⁴, and enabling the arbitrary character strings output.

Statistical Calculation Function (SCF)

The Apollo series can display and output statistical calculation data including number of data, sum, maximum, minimum, range (maximum-minimum), average, standard deviation, and coefficient of variation to facilitate the analysis of measurements.

Gross/Net/Tare Output

On receiving a command or with key operation, the Apollo series outputs the gross, net, and tare values to an external device such as a printer, PC or PLC.

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Advanced and Practical Features

RS-232C and USB Interfaces Standard

For the USB interface, you can toggle between the Quick USB mode (plug-and-play with weighing data output to a PC only) and the Virtual COM mode (for bi-directional communication) with internal settings. A USB cable is provided as standard.



Bright Bubble Large, easy-to-see spirit level with LED Illumination

The illumination blinks for 5 seconds after the display is turned on to indicate that the balance level needs to be checked.



Stainless Steel Pan & Dustplate

Easy to clean

Die cast Aluminum Housing

Top & Bottom to increases stabilization.

Large Reverse Backlit LCD Display

The contrast of black and white provides excellent visibility even in poorly-lit areas and also prevents eye fatigue. Easy 6 key controls

Easy unit toggle

One-touch Cal

CAL MODE SAMPLE PRINT

asy unit oggle

Easy resolution toggle



FlyThumbwheel Anti-slip Feet

Security Slot

from being lost.

An off-the-shelf (such as

Kensington) anti-theft lock can

be used to prevent the balance

The leveling feet can be adjusted up or down smoothly using large thumbwheels.

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Options

GXA-03	2nd RS-232C interface⁵	
GXA-04	Comparator relay output/buzzer/external key input interface ^{*5} Enables signaling check weighing results (5 steps) by buzzer and/or external comparator (traffic) lights. It also has two jacks for separately-sold foot switches.	
GXA-06	Analog output interface ^{*5} 0-1 V, or 0.2-1 V for conversion to 4-20 mA.	
GXA-09	Built-in rechargeable battery (factory-installed/dealer option) *5	
	10 hours of charging for 14 hours of operation (the remaining battery level will be indicated on the display). The balance can be used while recharging the battery.	
GXA-10	Large glass breeze break	ATT IN
GXA-12	Animal weighing pan (for models of 320 g capacity or higher) Use together with the animal weighing (average & hold) mode.	the states of the second secon
GXA-13	Density determination kit (for the 1 mg models only) Makes weighing the sample in air and in water quicker, easier and more precise. The	
	GX-A/GF-A series can then perform a density calculation automatically.	
GXA-17	Large glass breeze break with built-in fanless ionizer (static eliminator) The fanless ionizer can neutralize even extremely fine powders without disturbance.	GXA-10 Large Glass Breeze Break
GXA-23-PRINT	External key input interface with the AX-SW137-PRINT foot switch'5	
GXA-23-REZERO	External key input interface with the AX-SW137-REZERO foot swi	itch*⁵
GXA-23-PLUG	External key input interface with the AX-T-314A-S plug⁵	
GXA-24	USB host interface (factory-installed/dealer option) *5	Statement of the second se
	Accepts an off-the-shelf USB flash drive to save weighing results in CSV format.	
GXA-25	External fanless ionizer (static eliminator) *5	
0.V.A. 0.0	Power is supplied from the balance. Activated for a set duration with an IR sensor.	
GXA-26	External IR switch * ⁵ For touchless operation of print or re-zero (tare).	ALL DE LEVEL
FXi-08	Ethernet interface ^{*5}	AX-SW137-PRINT

Accessories

AD-1691 W AD-8127 Co AD-8526 So AD-8920A Ro AD-8922A Ro AX-GXA-31 M AX-USB-9P U	weezers for calibration weight /eighing environment analyzer ompact printer erial/Ethernet converter emote display emote controller ain unit cover (5 pcs) SB to Serial converter w/9pin to 9pin cable luetooth Converter for PC
	uetooth Converter for Printer
	1 1





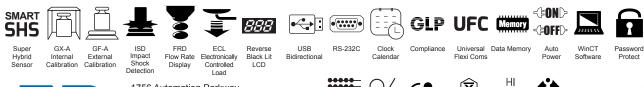
AD-8127 with AD-8529PR-W

Capacity 122 g 220 g 320 g 420 g 620 g 1100 g 1620 g Readability 0.001 g	0			GX-203A	GX-303A	GX-403A	GX-603A	GX-1003A	GX-1603A			
Readability 0.001 g 0.002 g (for 1600 g Repeatability (std. deviation) 0.002 g ±0.002 g Linearity ±0.002 g ±0.003 g Accuracy immediately after internal calibration (for the GX-A series) i ±0.010 g 10.002 g (for 1600 g) Stabilization Time Approx.1 sec (approx 0.8 sec for 5 g) Approx 1.5 sec (approx 0.8 sec for 5 g) Approx 1.5 sec (approx 0.8 sec for 5 g) Calibration for the GX-A series) i ±2 pm / 'C (10 'C to 33 'C / 50 'F to 86 'F, when automatic self-calibration is OFF) Type External GX Internal / GF External Approx 1.5 sec (approx 0.8 sec for 5 g) Approx 1.6 sec for 5 g Calibration Type External GX Internal / GF External Type (100 g interval) (100 g int	Specifications		GF-123A	GF-203A	GF-303A	GF-403A	GF-603A	GF-1003A	GF-1603A			
Repeatability (std. deviation) 0.001 g 0.002 g (for 1600 g 0.001 g (for 1600 g) Linearity ± 0.002 g ± 0.003 g Accuracy immediately after internal calibration (for the GX-A series)' ± 0.010 g ± 0.010 g Stabilization Time Approx. 1 sec (approx 0.8 sec for 5 g) Approx. 1 sec (approx 0.8 sec for 5 g) Sensitivity drift ± 2 pm / 'C (10 'C to 30 'C / 50 'F to 86 'F, when automatic self-calibration is OFF) Sensitivity drift ± 2 pm / 'C (10 'C to 30 'C / 50 'F to 86 'F, when automatic self-calibration is OFF) Vit. 9: 50 g 100 g 50 g 200 g 50 g 100 g <td>Capacity</td> <td colspan="6">vacity 122 g 220 g 320 g 420 g 620 g 1100 g</td> <td>1100 g</td> <td>1620 g</td>	Capacity	vacity 122 g 220 g 320 g 420 g 620 g 1100 g						1100 g	1620 g			
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Type External GX Internal / GF External Calibration Wt.g. 50 g 100 g 50 g 100 g 100 g 50 g 100 g 100 g 50 g 100 g 100 g 100 g 50 g 100 g 100 g 100 g 50 g 100 g 100 g 100 g 100 g 50 g 100 g 100 g 100 g 50 g 100 g 100 g 100 g 50 g 100 g 100 g 50 g 100 g 100 g 50 g 100 g 100 g 50 g 100 g 5	Stabilization	Time		Approx. 1 sec (approx 0.8 sec for 5 g)								
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Display Refresh Rate 5 times / second, 10 times / second or 20 times / second Units of Measure i g (gram), oz (ounces), lb (pound), lb-oz (pound-ounce), ozt (troy ounce), ct (metric carat), mom (momme), dwt (pennyweight), gr (grain), pcs (counting mode), % (percent mode), SG (specific gravity), and a user-programmable unit. Counting mode Min unit mass 0.001 g Number of samples 5, 10, 25, 50 or 100 pieces Percent mode) Min 100% ref mass 0.01%, 0.1% or 1% (depends on the reference mass stored) Operating environment 5 °C to 40 °C / 41 °F to 104 °F, 85% R.H. or less (no condensation) Power supply / consumption AC adapter / approx. 30 VA Communication Interface RS-232C and USB Weighing pan size 128 mm × 128 mm / 5 × 5 in Dimensions (W × D × H) 212 (W) × 317 (D) × 93 (H) mm / 8.3 (W) × 12.5 (D) × 3.7 (H) in	Calibration	Wt. g.		100 g	100 g 200 g	100 g (100 g interval)						
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Weighing pan size 128 mm × 128 mm / 5 × 5 in Dimensions (W × D × H) 212 (W) × 317 (D) × 93 (H) mm / 8.3 (W) × 12.5 (D) × 3.7 (H) in	Power suppl	ower supply / consumption AC adapter / approx. 30 VA										
Dimensions (W × D × H) 212 (W) × 317 (D) × 93 (H) mm / 8.3 (W) × 12.5 (D) × 3.7 (H) in	Communicat	tion Interface	RS-232C and USB									
	Weighing pan size 128 mm × 128 mm / 5 × 5 in											
Net weight Approx. 5 kg / 11 lb	Dimensions	s (W × D × H)	212 (W) × 317 (D) × 93 (H) mm / 8.3 (W) × 12.5 (D) × 3.7 (H) in									
	Net weight					Approx. 5 kg / 11 lb						

Specifications			GX-2002A	GX-3002A	GX-4002A	GX-6002A	GX-10002A	GX-6001A	GX-10001A	
		GF-1202A	GF-2002A	GF-3002A	GF-4002A	GF-6002A	GF-10002A	GF-6001A	GF-10001A	
Capacity	Capacity		2200 g	3200 g	4200 g	6200 g	10200 g	6200 g	10200 g	
Readability			0.01 g						0.1 g	
Repeatability (std. deviation)			0.01 g				0.02 g (for 10000 g) 0.01 g (for 5000 g)	1 g		
Linearity		±0.02 g				±0	.03 g	±0.1 g		
Accuracy immediately after internal calibration (for the GX-A series) ⁱ		± 0.	± 0.10 g ± 0.15 g			± 0.15 g	(for 5000 g)	± 0.5 g (for 5000 g)		
Stabilization Time			Approx. 1 sec (approx 0.8 sec for 50 g)					Approx 1 sec (approx 0.8 sec for 500 g)		
Sensitivity of	lrift		±2 ppm / °C (10 °C to 30 °C / 50 °F to 86 °F, when automatic self-calibration is OFF)							
	Туре	External	GX Internal / GF External							
Calibration	Wt. g.	500 g 1000 g	500 g 1000 g 2000g	500 g 1000 g 2000 g 3000 g	500 g 1000 g (1000 g interval) 4000 g	500 g 1000 g (1000 g interval) 6000 g	500 g 1000 g (1000 g interval) 10000 g	500 g 1000 g (1000 g interval) 6000 g	500 g 1000 g (1000 g interval) 10000 g	
Display		Reverse Backlit LCD (Character height: 17.8 mm)								
Display Refresh Rate		5 times / second, 10 times / second or 20 times / second								
Units of Measure "		g (gram), oz (ounces), lb (pound), lb-oz (pound-ounce), ozt (troy ounce), ct (metric carat), mom (momme), dwt (pennyweight), gr (grain), pcs (counting mode), % (percent mode), SG (specific gravity), and a user-programmable unit.								
Counting	Min unit mass	0.01 g 0.1 g							1 g	
mode	Number of samples	5, 10, 25, 50 or 100 pieces								
Percent	Min 100% ref mass	1.00 g 10.0 g							.0 g	
mode	Min 100% display	0.01%, 0.1% or 1% (depends on the reference mass stored)								
Operating environment 5 °C to 40 °C / 41 °F to 104 °F, 85% R.H. or less (no condensation)										
Power supply / consumption AC adapter / approx. 30 VA										
Communication Interface RS-232C and USB										
Weighing pan size 165 mm × 165 mm / 6.5 × 6.5 in										
Dimensions	$(W \times D \times H)$		212 (W) × 317 (D) × 93 (H) mm / 8.3 (W) × 12.5 (D) × 3.7 (H) in							
Net weight Approx. 5 kg / 11 lb										
i Under stable environment (no rapid temperature/humidity change vibration, draft, magnetism, static, etc). The mass of the internal weight may yary with age										

i Under stable environment (no rapid temperature/humidity change, vibration, draft, magnetism, static, etc). The mass of the internal weight may vary with age.

ii One additional unit from tael (Singapore/HK jewelry/Taiwan/China), tola or Newton can be added upon request.





1756 Automation Parkway San Jose, CA 95131 (800) 726-3364 or (408) 263-5333 www.andweighing.com

ACAI

Counting Function

Percentage Function



ОК

LO

Function

Comparator Underhook

σ ͺΣ

Animal Weighing Statistical

Calculation

Optional



LAN-Ethernet Rechargable USB Host Interface Battery

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