



Scientific Products

AND

Discover Precision

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Key Feature Index



Super Hybrid Sensor
A&D's Super Hybrid Sensor combines the best of magnetic force restoration and single point parallelogram load sensing technologies



VFD Display
Vacuum Fluorescent Display



LCD Display
Liquid Crystal Display



LCD Backlight
Liquid Crystal Display with Backlight



0.01 mg Semi-Micro Resolution



Internal Calibration
Standard with built-in motor driven calibration masses. Calibrates itself when sensing a change in ambient temperature.



External Calibration



RS-232C
RS-232C can be used to connect with PC and printer.



Current Loop (optional)
Current loop serial interface



Full Digital Calibration
Simplifies calibration by eliminating the need to continuously load and unload calibration weights to adjust Zero and Span.



Comparator
HI,GO,LO comparator output as an option.



ACAI (Automatic Counting Accuracy Improvement)
Continuous recalculation and update of average piece weight ensures optimum count accuracy even with very small parts.



Triple Range Weighing
Triple weighing resolution



Secondary Radiation Assist
Secondary Radiation Assist filtered chamber technology



Straight Halogen Lamp
Halogen Lamp as heating source



GLP Compliance
The data can be output to A&D's AD-8121 printer or a computer, indicating date, time, Balance ID number and calibration weight.



IP54
(Protected against moisture and dust)
The stainless steel weighing pan and sealed base are resistant to water and dust.



IP65
(Protected against moisture and dust)
The stainless steel weighing pan and sealed base are resistant to water and dust.



Battery Operation (DD)
Battery Operation is available with 6 DD batteries.



Battery Operation (AA)
Battery Operation is available with 6 AA batteries.



Splash Proof
Splash Proof Keyboard and Display



WinCT
Windows Communication Tools software for easy transmission of weighing data from A&D balances to a PC using RS-232C interface



WinCT Moisture
Windows Communication Tools software for easy transmission of moisture content determination data from A&D moisture analyzers to PC using RS-232C interface



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



Auto Power OFF
Auto power off function



ID Number
It is used to identify the balance when GLP is used.



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



Data Memory
Format for Data Memory Function



Smart Range
Fine weighing is possible even with a heavy container for more accuracy



Animal Weighing Mode
Allows you to quickly and accurately determine the weight of any live or unstable subject.



Universal Flex Coms
Allows you to print out as you format the printer



Percentage Function

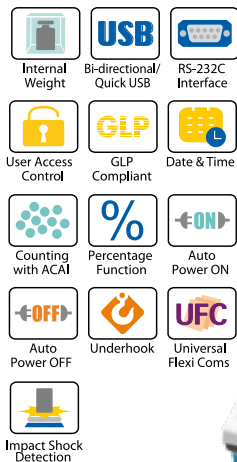


- Industry leading 5 years warranty
- Automatic opening/closing of the breeze break doors using non-contact IR sensors
- 13cm wide colour touch screen that enables intuitive operation (for the BA-T series)
- External ionizer for instant static removal
- Detachable breeze break unit and easily separable glass panes for better cleanliness*2
- No grooves for the sliding doors so that contaminants do not accumulate
- Inner breeze break for 0.001 mg models to increase stability*2
- On-screen leveling assist (for the BA-T series)
- AD-Just – Automatic self sensitivity adjustment using the internal weight
- Internal repeatability test to quickly assess the performance under a given environment
- Daily/periodic balance check support (for the BA-T series)
- Minimum weight setting and alert functions
- Auto power ON and OFF functions
- User access control (UAC) with user rights management and password lock functions
- History information for log-in/log-out, operation, and sensitivity adjustment (for the BA-T series)
- Selectable response characteristics for trading faster weighing speed for higher display stability or vice versa
- GLP/GMP/GCP/ISO compliant output to meet documentation requirements
- Universal Flexi Coms (UFC) to customize printout content and layout (for the BA series)*3
- Gross/Net/Tare output
- Counting mode with the Automatic Counting Accuracy Improvement (ACAI) function
- Percent mode function for target weighing or checking sample variation
- Statistical calculation function (SCF) to facilitate the analysis of measurements (for the BA-T series)
- Underhook for weighing a magnetic material as well as measuring density

Specifications	BA-6TE	BA-225TE
Capacity	6.2g	220g
Readability	0.001mg	0.01mg
Weighing Pan Size	Ø25mm	Ø85 mm
Power Supply	AC Adapter / Approx. 36VA	

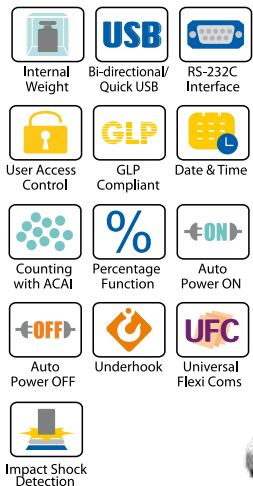
BH-T

Touch Screen Professional Semi Micro /Analytical Balance



- Automatic opening/closing of the breeze break doors using non-contact IR sensors
- 5-inch wide color touch screen that enables intuitive operation (for the BH-T series)
- External ionizer for instant static elimination¹
- Easily separable glass panes and floor plate for better cleanability
- No grooves for the sliding doors so that contaminants do not accumulate
- Perforated weighing pan with shock absorber that mitigates the effects of both convection flows and sample placement impact (patent pending)
- Impact shock detection (ISD) providing feedback to prevent damage to the weight sensor (patented)
- AD-Just – Automatic self-sensitivity adjustment using the internal weight
- Internal repeatability test to quickly assess the performance under actual operating conditions
- Daily/periodic balance check support (for the BH-T series)
- Smart routine check (SRC) function (for the BH-T series) (patented)
- Minimum weight setting and alert functions
- User access control (UAC) with user rights management and password lock functions
- History information for log-in/log-out, operation, sensitivity adjustment, and impact shock detection (ISD) (for the BH-T series)
- Data memory function (for the BH series)
- Selectable response characteristics for trading faster weighing speed for higher display stability or vice versa

Specifications	BH-225TE	BH-224TE	BH-324TE
Capacity	220g	220g	320g
Readability	0.01mg	0.1mg	
Weighing Pan Size	Ø90mm		
Display	5-inch colour touch screen		



- Automatic opening/closing of the breeze break doors using non-contact IR sensors
- External ionizer for instant static elimination¹
- Easily separable glass panes and floor plate for better cleanability
- No grooves for the sliding doors so that contaminants do not accumulate
- Perforated weighing pan with shock absorber that mitigates the effects of both convection flows and sample placement impact (patent pending)
- Impact shock detection (ISD) providing feedback to prevent damage to the weight sensor (patented)
- AD-Just – Automatic self-sensitivity adjustment using the internal weight
- Internal repeatability test to quickly assess the performance under actual operating conditions
- Daily/periodic balance check support (for the BH-T series)
- Minimum weight setting and alert functions
- User access control (UAC) with user rights management and password lock functions
- Data memory function (for the BH series)
- Selectable response characteristics for trading faster weighing speed for higher display stability or vice versa

Specifications	BH-225	BH-224	BH-324
Capacity	220g	220g	320g
Readability	0.01mg	0.1mg	0.1mg
Weighing Pan Size	Ø90 mm		
Display	Reverse backlit LCD (main characters: 11 segments, 17.8 mm height)		

GX-224A

**Trade Approved
Analytical Balance**



- Industry leading 5 years warranty
- NMI Trade Approved #6/4C/323. The NMI readability is 1mg (0.001g) resolution
- Impact shock detection (ISD) providing feedback to prevent damage to the weight sensor¹
- Electronically controlled load (ECL) that enables precision management without using an external weight*1
- Flow rate display (FRD) that makes calculating and recording flow rates easier and more accurate²
- Smart super hybrid sensor (Smart SHS) that realizes fast stabilization, long-term durability and low cost of ownership
- Shock logging function that records up to 50 adverse impact loads with a timestamp for later inspection
- Cushioning under the weighing pan to mitigate impact shocks significantly
- Protection against vertical and transverse static overloading
- Tare memory function that saves the tare value in non-volatile memory
- Large and detachable, glass breeze break
- Retractable doors that disappear into the back, requiring no extra space at the rear
- Automatic self calibration in response to temperature changes or according to set schedules
- Automatic minimum weight calculation with either ECL or an actual, external weight
- Alert function to ensure that the measured quantity is not smaller than the set minimum weight
- Selectable response characteristics for trading weighing speed for higher display stability or vice versa
- Large, front-mounted spirit level with LED illumination
- Easy-to-adjust leveling feet with thumbwheels
- GLP/GMP/GCP/ISO compliant output to meet documentation requirements

Model	Capacity	Weighing Pan Size
GX-224A Comes with ioniser, non-trade	220g x 0.0001g (0.1mg)	Ø90mm
GX-224AE is non trade without ioniser	220g x 0.0001g (0.1mg)	Ø90mm
GX-224A-TA is trade approved without ioniser	220g x 0.001g (1mg)	Ø90mm

FZ-104/FZ-254

Entry Analytical Balances



Internal Weight
(FZ/FZ-WP)



IP65
(FZ-WP/FX-WP)



Compact Super
Hybrid Sensor



Animal
Weighing



Statistical
Calculation



Comparator
Function



Reverse
Backlit LCD



RS-232C
Interface



User Access
Control



Auto
Power ON



Auto
Power OFF



Underhook



GLP
Compliant



Date & Time
(FZ/FZ-WP)



Impact Shock
Detection



- High-speed weighing with 1-second stabilization¹
- Compact Super Hybrid Sensor (C-SHS) enabling footprints smaller than an A4 sheet of paper
- Anti-static, shatter-resistant, and easily-detachable breeze break with rotary sliding doors²
- Guarded against accidental overloading
- Impact shock detection (ISD) providing feedback to prevent damage to the weight sensor (patented)
- Shock logging function that records up to 50 adverse impact loads with a timestamp for later inspection
- One-touch sensitivity adjustment with an internal weight (FZ/FZ-WP)
- Density determination function for automatic density calculation (a separately-sold density determination kit, AD-1654, is also available)
- Selectable response characteristics for trading faster weighing speed for higher display stability or vice versa
- Clearly visible, reverse-backlit LCD (main character height: 16mm)
- Counting mode with Automatic Counting Accuracy Improvement (ACAI)
- Underhook for weighing by hanging
- Multiple units of measure: g, mg*2, oz, lb*1, lb-oz¹, ozt, ct, mom, dwt, gr, and a user-programmable unit for conversion applications (either tael, tola or Newton can be added upon request)
- Comparator mode with buzzer for intuitive, error-free check weighing
- Percent mode useful for target weighing or checking sample variation
- Animal weighing (average & hold) function for weighing moving objects

Specifications	FZ-104	FZ-254
Capacity	102g	252g
Readability	0.0001g	
Pan Size	Ø90mm	

GX-A Series

Multi-functional Precision Balances



Options With standard breeze break

- Impact shock detection (ISD)*1 allows users to take preventive measures as necessary
- Flow rate makes recording flow rates easier and more accurate
- Protection against vertical and transverse static overloading
- Flow rate comparator that indicates whether the flow rate is within the designated limits
- Tare memory function that saves the tare value in non-volatile memory
- Fast stabilisation of approximately 1 second
- One touch calibration using internal weight
- Automatic self calibration to maintain accuracy under temperature changes
- Multiple weighing units: g, oz, lb, lb-oz, ozt, ct, mom, dwt, grain
- GLP/GMP/GCP/ISO compliant output to meet documentation requirements
- Universal Flexi Coms (UFC) function to edit serial data output/printout format
- **NMI Trade Approved #6/4C/323**

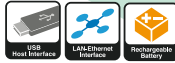
Model	Capacity	Resolution	Pan Size
GX-203A*	200g	0.001g	128mm x 128mm
GX-403A*	420g	0.001g	
GX-603A*	620g	0.001g	
GX-1003A	1,100g	0.001g	
GX-2002A*	2,200g	0.01g	165mm x 165mm
GX-4002A*	4,200g	0.01g	
GX-6002A*	6,200g	0.01g	
GX-6001A*	6,200g	0.1g	
GX-10001A	10,200g	0.1g	

GF-A Series

Multi-functional Precision Balances



Options

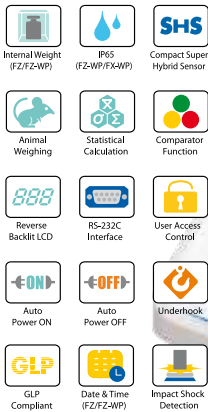


- Impact shock detection (ISD)*1 allows users to take preventive measures as necessary
- Flow rate makes recording flow rates easier and more accurate
- Protection against vertical and transverse static overloading
- Flow rate comparator that indicates whether the flow rate is within the designated limits
- Tare memory function that saves the tare value in non-volatile memory
- Fast stabilisation of approximately 1 second
- Clearly visible, reverse backlit LCD display
- One touch calibration using internal weight
- Multiple weighing units: g, oz, lb, lb-oz, ozt, ct, mom, dwt, grain
- Clock and calendar function
- GLP/GMP/GCP/ISO compliant output to meet documentation requirements
- Universal Flexi Coms (UFC) function to edit serial data output/printout format

Model	Capacity	Resolution	Pan Size
GF-203A	200g	0.001g	128mm x 128mm
GF-403A	420g	0.001g	
GF-603A	620g	0.001g	
GF-1003A	1,100g	0.001g	
GF-2002A	2,200g	0.01g	165mm x 165mm
GF-4002A	4,200g	0.01g	
GF-6002A	6,200g	0.01g	
GF-6001A	6,200g	0.1g	
GF-10001A	10,200g	0.1g	

FZ/FZ-WP

**Professional
Balances**

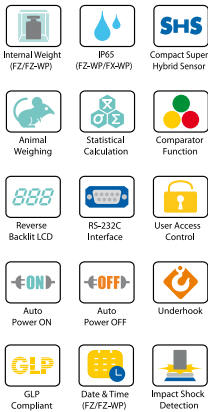


- High-speed weighing with 1-second stabilization¹
- Compact Super Hybrid Sensor (C-SHS) enabling footprints smaller than an A4 sheet of paper
- Anti-static, shatter-resistant, and easily-detachable breeze break with rotary sliding doors²
- IP65 dust and waterproof (FZ-WP/FX-WP)
- Guarded against accidental overloading
- Impact shock detection (ISD) providing feedback to prevent damage to the weight sensor (patented)
- Shock logging function that records up to 50 adverse impact loads with a timestamp for later inspection
- One-touch sensitivity adjustment with an internal weight (FZ/FZ-WP)
- Selectable response characteristics for trading faster weighing speed for higher display stability or vice versa
- Clearly visible, reverse-backlit LCD (main character height: 16mm)
- Counting mode with Automatic Counting Accuracy Improvement (ACAI)
- Density determination function for automatic density calculation (a separately-sold density determination kit, AD-1654, is also available)
- Underhook for weighing by hanging
- Multiple units of measure: g, mg², oz, lb*1, lb-oz*1, ozt, ct, mom, dwt, gr, and a user-programmable unit for conversion applications (either tael, tola or Newton can be added upon request)
- Comparator mode with buzzer for intuitive, error-free check weighing
- Percent mode useful for target weighing or checking sample variation
- Animal weighing (average & hold) function for weighing moving objects
- Statistical calculation function (SCF) to facilitate the analysis of measurements
- Capacity indicator that lets you know the remaining capacity of the balance
- GLP/GMP/GCP/ISO compliant output to meet documentation requirements

Specifications	FZ-323 FZ-323WP	FZ-523	FZ-3202 FZ-3202WP	FZ-5202
Capacity	320g	520g	3200g	5200g
Readability	0.001g		0.01g	
Weighing Pan Size	Ø130mm		Ø150mm	

FX/FX-WP

Professional
Balances



- High-speed weighing with 1-second stabilization¹
- Compact Super Hybrid Sensor (C-SHS) enabling footprints smaller than an A4 sheet of paper
- Anti-static, shatter-resistant, and easily-detachable breeze break with rotary sliding doors²
- IP65 dust and waterproof (FZ-WP/FX-WP)
- Guarded against accidental overloading
- Impact shock detection (ISD) providing feedback to prevent damage to the weight sensor (patented)
- Shock logging function that records up to 50 adverse impact loads with a timestamp for later inspection
- Selectable response characteristics for trading faster weighing speed for higher display stability or vice versa
- Clearly visible, reverse-backlit LCD (main character height: 16mm)
- Counting mode with Automatic Counting Accuracy Improvement (ACAI)
- Density determination function for automatic density calculation (a separately-sold density determination kit, AD-1654, is also available)
- Underhook for weighing by hanging
- Multiple units of measure: g, mg², oz, lb*1, lb-oz*1, ozt, ct, mom, dwt, gr, and a user-programmable unit for conversion applications (either tael, tola or Newton can be added upon request)
- Comparator mode with buzzer for intuitive, error-free check weighing
- Percent mode useful for target weighing or checking sample variation
- Animal weighing (average & hold) function for weighing moving objects
- Statistical calculation function (SCF) to facilitate the analysis of measurements
- Capacity indicator that lets you know the remaining capacity of the balance
- GLP/GMP/GCP/ISO compliant output to meet documentation requirements

Specifications	FX-323 FX-323WP	FX-523	FX-3202 FX-3202WP	FX-5202
Capacity	320g	520g	3200g	5200g
Readability	0.001g		0.01g	
Weighing Pan Size	Ø90mm		Ø130mm	

GX-L

Industrial Balances



- High resolution down to 0.1g
- Industry leading 5 years warranty
- Utilises the revolutionary Super Hybrid Sensor
- IP-65 protected to withstand harsh environments
- Internal Calibration using motor driven masses
- Vacuum fluorescent display element
- Multiple weighing units
- Wide range of capacities and resolutions
- Maximum capacity 101 kg
- Overload protected to take hard use
- Adjustable environmental settings to match your needs
- Piece counting software as standard
- Percentage comparison weighing software as standard
- Built in 5 level comparator for check weighing
- Sealed keypad protecting against spills and dust
- Standard RS232C serial data interface
- Supplied with WinCT communication software
- USB output
- Comparator output option
- Flow rate detection (FRD) and Impact shock detection (ISD)
- Automatic level detection & warning

Model	Capacity	Weighing Pan Size	Data Memory
GX-12001L	12kg	384mm x 344mm	200 weighing results + 50 sensitivity adjustment/ calibration test results (with timestamps), 50 unit masses for counting mode, 20 sets of upper/lower limit values for comparator mode, and 20 tare values
GX-22001L	22kg		
GX-32001L	32kg		
GX-32001LS	32kg		
GX-32001LD	6.2kg / 32kg		
GX-32001LDS	6.2kg / 32kg		
GX-42001L	42kg		
GX-62001L	62kg		
GX-62001LS	62kg		
GX-62000L	62kg		
GX-62000LS	62kg		
GX-102000L	102kg	386mm x 346mm	
GX-102000LS	102kg		



- Dust and moisture protected to IP-65 level
- Industry leading 5 years warranty
- Impact shock detection (ISD) providing feedback to prevent damage to the weight sensor
- Flow rate display (FRD) that makes calculating and recording flow rates easier and more accurate
- Shock logging function that records up to 50 adverse impact loads with a timestamp for later inspection
- Cushioning under the weighing pan to mitigate impact shocks significantly
- Flow rate comparator that indicates whether the flow rate is within the designated limits
- Tare memory function that saves the tare value in non-volatile memory
- Automatic self calibration in response to temperature changes or according to set schedules (GX-M)
- Automatic minimum weight calculation with either ECL or an actual, external weight
- Alert function to ensure that the measured quantity is not smaller than the set minimum weight
- Selectable response characteristics for trading weighing speed for higher display stability or vice versa
- User access control (UAC) that password-protects the balance from misuse
- GLP/GMP/GCP/ISO compliant output to meet documentation requirements
- Universal Flexi Coms (UFC) to customize printout content and layout
- Gross/Net/Tare output
- Data memory function to save weighing results, calibration results, unit masses to be used in counting mode, etc.,
- Counting mode with the Automatic Counting Accuracy Improvement (ACAI) function
- Percent mode function for target weighing or checking sample variation

Model	Capacity	Weighing Pan Size	Data Memory
GX-10202M	10.2kg	270mm × 210mm	200 weighing results + 50 calibration results (with timestamp), 50 unit masses for counting mode, 20 sets of upper/lower limit values for comparator mode, and 20 tare values
GX-12001M	12.2kg		
GX-22001M	22.2kg		
GX-32001M	32.2kg		

MS-74AT/MX-53AT

Touch Screen Moisture Analysers



- Simple, safe, and chemical reagent-free heat-drying technology
- Six models available: From high-end touchscreen models (MS-74AT/MX-53AT) to cost-effective reverse backlit LCD models
- Optimum Temperature Search (RSTemp) for quickly identifying recommended drying temperature
- Powerful 400 W halogen lamp for high-speed heating
- Secondary Radiation Assist (SRA) for even heat distribution and lamp protection
- Super Hybrid Sensor (SHS) ensuring high precision and reproducibility
- Heater cover with a soft-close design for operational comfort
- Automatic tare/measurement start upon cover closure¹
- Preheating function for result consistency
- Real-time display of moisture content and drying rate (%/min)
- Offset adjustment (up to $\pm 9.999\%$)² for result alignment
- Weighing mode to use the analyzer as a balance
- Thermal analysis mode (up to five drying stages)¹
- Programmed measurement: Save up to 300 customized conditions (200 for the reverse backlit LCD models)
- Over 100 preset programs (examples)
- Level meter providing visual guidance for accurate sample placement
- Sample mass calculation tool for calculating required sample weight for accurate moisture measurement¹
- Sample pretreatment guide for displaying pretreatment recommendations based on sample characteristics¹
- Automatic determination of drying time in Timer mode for estimating optimal drying duration at three accuracy levels¹

HEATING PATTERNS

Standard	Ramp	Step	Quick
Maintains a constant drying temperature.	Gradually increases the drying temperature.	Uses two different drying temperatures.	Applies high temperature briefly at the start to shorten measurement time.

MS-74A/MX-53A/MF-53A/ML-53A

Moisture Analysers



- Plastic measurement guide for supporting measurements of low-moisture samples (1% or less)¹
 - Comparator function for evaluating moisture content with HI/OK/LO thresholds
 - User access control (UAC) with user rights management and password lock functions
 - Automatic storage of up to 3,000 measurement results (200 for the reverse backlit LCD models)
 - Comprehensive history recording (adjustment, operation, log-in/out histories)
 - Daily-check and self-check functions for stable operation
 - Measurement accuracy verification using a standard test sample (sodium tartrate dihydrate)
 - Adjustment functions for both the weight sensor and the heater
 - GLP/GMP/GCP/ISO compliant output to meet documentation requirements
 - Built-in Help menu and FAQ*1
 - Support for eleven display languages*1: English, French, German, Italian, Dutch, Spanish, Portuguese, Russian, Korean, Chinese, or Japanese
- ¹ Available for the MS-74AT/MX-53AT (touchscreen models) only
- ² Precision depends on the model's readability.

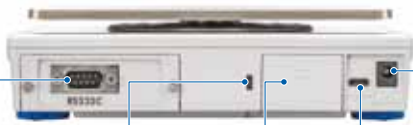
Model			MS-74AT MS-74A	MX-53AT MX-53A	MF-53A	ML-53A
Drying temperature (near the sample pan)			30 to 200 °C (1 °C increments)			
Heating patterns			Standard heating, Ramp heating, Step heating, Quick heating			
Measurement Modes			Standard mode, Timer mode, Custom mode			
Calculation units			Moisture content based on wet weight, Moisture content based on dry weight (Atro), Solid content, Ratio, Gram			
Measurable sample weight range			0.1 to 71g	0.1 to 51g		
Readability	Moisture content		0.001% 0.01% 0.1%	0.01% 0.1%	0.05% 0.1% 1%	0.1% 1%
	Weight		0.0001g	0.001g	0.002g	0.005g
Reproducibility (standard deviation)	Moisture content ¹	Sample weights ≥ 5g	0.01%	0.02%	0.05%	0.1%
		Sample weights ≥ 1g	0.05%	0.1%	0.2%	0.5%
	Weight		0.0002g	0.001g	0.002g	0.005g
Sample pan size			Ø90mm			



**Free downloadable
WinCT software
available**



Options



RS-232C
(D-Sub 9-pin, standard)

Security slot
(Kensington-compatible)

Battery
compartment

USB
(Type-C, power input)

DC jack
(AC adapter input)

- Fast stabilisation for efficient weighing
- Standard RS-232C interface
- Large LCD display with backlight
- GLP compliance and overload protection
- Standard comparator function
- Multiple ways to connect and share data
- Stainless steel weighing pan (SUS304)
- Multiple units of measure
- Password lock and key restriction
- Underhook option

Model	EK-422	EK-622	EK-3201	EK-4201	EK-6201	EK-6200	EK-12000
Capacity	420g	620g	3200g	4200g	6200g	6200g	12kg
Resolution	0.01g	0.01g	0.1g	0.1g	0.1g	1g	1g
Calibration	External	External	External	External	External	External	External
Dimensions	190(W) x 205(D) x 55(H)		190(W) x 205(D) x 54(H)				
Pan Size	Ø116mm		133mm x 170mm				
Power Supply	AC Adaptor TB-S200A (included, USB (Type-C) (not included) or 4 x AA batteries (not included))						



Options



- Provides multiple weighing units, including count and percentages.
- Stackable body allows convenient storage of multiple units.
- Calculates density automatically using the optional density kit.
- Battery indicator shows remaining charge.
- Backlit display - ideal for poorly lit areas.
- Modular design for density and breeze break options.

MODEL	EJ-210	EJ-410	EJ-610	EJ-1500	EJ-4100	EJ-6100
Weight capacity	210g	410g	610g	1500g	4100g	6100g
Min. display "d"	0.01g			0.1g		
Weighing pan size	110mm Ø			127mm x 140mm		
Weighing units	g, pcs, %, oz, ozt, ct, mom, dwt, GN, N, SG (density), tola*, tael (HG, HJ, T)*					

EK-EP Series *Intrinsically safe Compact Balances*



- Easy to read LCD display with backlight (16mm character height)
- Chemically resistant stainless steel SUS430 weighing pan
- Comparator function for faster and more accurate filling, packing, sorting etc.
- SACAI Automatic counting accuracy improvement

Model	Capacity	Resolution	Pan Size
EK-300EP	300g	0.01g	Ø110mm
EK-3000EP	3000g	0.1g	133mm x 170mm
EK-12KEP	12kg	1g	





- Stainless steel SUS430 weighing pan cover
- Multiple weighing units: g, kg, oz, lb, ozt
- Percentage Counting and Comparator function
- ACAI Automatic counting accuracy improvement
- RS-232C interface as standard
- GLP, GMP and ISO compliance



Model	Capacity	Resolution	Pan Size
EK-15KL	15kg	0.1g	300mm x 210mm
EK-30KL	3kg	0.1g	
	30kg	1g	



- Five models available
- Large LCD display
- Long battery life
- Multiple weighing units
- Auto power off function supplied in stackable plastic case suitable for display
- Security slot to prevent theft



Model	HT-120	HT-300	HT-500	HT-3000	HT-5000
Weighing capacity	120g	310g	510g	3100g	5100g
Minimum weighing value	0.01g	0.1g		1g	
Power supply	4 AA batteries or an AC adapter (optional)				
Pan size	Ø70mm	132 (W) x 130 (D) mm			
Dimensions	195 (W) x 136 (D) x 44 (H) mm				

HT-CL Series

**Compact
Packing Scales**



**Ideal for
RAPID
Punnet weighing!**



Carry Case
(steel pan is optional)



Quantity too small



Quantity just right



Quantity too large

- Highly-visible, multi-coloured LED lights for quick and unmistakable comparator judgements
- Operation with either four AA batteries or the provided AC adapter
- Large LCD display with 13.5-mm high characters
- Auto power off function to avoid wasting power
- Multiple weighing units: g, oz, ozt, lb-oz
- Security slot in the rear of the scale to accommodate an anti-theft lock
- Key lock function to prevent operators from making changes to the scale settings
- Comes in a stackable carrying case as standard to save space when stored
- Includes three colour bars (red, green and orange)

Model	Capacity	Resolution	Pan Size
HT-500CL	510g	0.1g	132mm x 130mm
HT-3000CL	3100g	1g	
HT-5000CL	5100g	1g	

AD-4212C & AD-4212B

Production Weighing System

For maximum efficiency of your production line

Applications such as:

- High-speed weighing
- High-speed check weighing
- Filling
- Isolated weighing

High Speed - Durable

Compact

Precise Filling



AD-4212B Model

- High resolution and quick stabilization times down to: 2.5 seconds for 0.1mg & 4 seconds for 0.01 mg
- Standard RS-232C interface
- 5-level comparator with contact output and buzzer
- External digital inputs to trigger actions such as RE-ZERO or PRINT
- Data memory, GLP and GMP compliant
- Win CT: software tool for data acquisition from PC
- Multiple weighing units
- VFD screen for easy to read weighing results
- 2m connection cable in between sensor and indicator
- Protection against vertical or transverse shocks - patented

AD-4212C Model

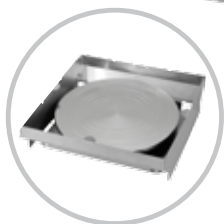
- High resolution and quick stabilization times down to: 0.5 second up to 30 grams & 1.0 second up to maximum capacity
- Possibility to use a weighing pan of your own design for holding special objects
- Protected against vertical and transverse overloading (patent pending)
- Outputs digital weighing data directly to a panel computer, PLC, or PC via standard RS-232C interface
- Analog, comparator, and BCD outputs are also possible through the optional AD-8922A controller
- High-speed data transmission of up to 50 times/second
- IP65 dust and water-proof construction for powder or liquid weighing
- Easy calibration and response speed adjustment using WinCT-AD4212C software
- Calibration weight included
- Connection cable included (about 5m)
- Securable to a base by replacing levelling feet with screws



Model & Accessories	Capacity	Resolution	Pan Size
AD-4212B-101*	110g/31g	0.1mg/0.01mg	Ø 34mm
AD-4212B-102	110g	0.01mg	Ø 34mm
AD-4212B-201	210g	0.1mg	50mm x 50mm
AD-4212B-301	310g	0.1mg	50mm x 50mm
AD-4212C-301*	51g/320g	0.1mg/0.01mg	50mm x 50mm
AD-4212C-3001*	510g/3200g	1mg/10mg	50mm x 50mm
AD-4212C-300	320g	1mg	50mm x 50mm
AD-4212C-600	610g	1mg	50mm x 50mm
AD-4212C-3000	3200g	10mg	50mm x 50mm

* SmartRange: Retains fine precision when tare is used.

MC-A/M Series Comparators

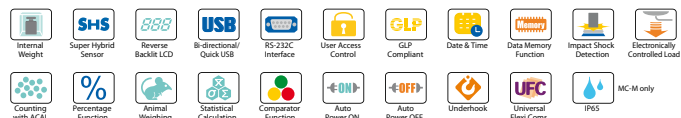


Auto-centering pan (option) realizes mass comparison with higher accuracy by correcting eccentric loadings.

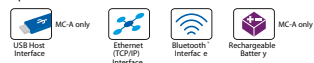


- Industry leading 5 years warranty
- Stabilizing filter to minimize errors due to drafts or vibrations
- Extra decimal place makes it possible to monitor fine weight changes with heavy tare weights
- Auto-centering pan to ensure higher accuracy (Supplied Standard)
- Internal calibration mass for simplified calibration of the balance
- Large bright vacuum fluorescent display
- GLP/GMP/GCP/ISO compliant output
- Multiple weighing units selectable & user-programmable unit for conversion applications
- Equipped with a glass breeze break (MC-1000/6100) or simple breeze break (MC-10K/30K)
- Fast stabilization of appx. 1.5 secs.
- Data memory function
- Counting mode with the Automatic Counting Accuracy Improvement (ACAI) function
- Percent mode function
- Animal weighing (hold) function
- Accumulation (M+) function (MC-10K/30K/100KS)
- Comparator function with buzzer
- Auto power on/off function
- Underhook function
- Density determination function
- Windows Communication Tools software (WinCT) on CD-ROM

Model	MC-1104A	MC-6203A	MC-10203M	MC-32002M
Weighing capacity	1100g	6200g	10.2kg	32.2kg
Readability	0.0001g	0.001g	0.001g	0.01g
Repeatability (Standard Deviation)	0.00035g	0.0035g (over 2000g) 0.0015g (up to 2000g)		0.05g (over 20kg) 0.015g (up to 20kg)
Linearity	±0.003g	±0.03g		±0.2g
Weighing Pan	128mm x 128mm	165mm x 165mm	270mm x 210mm	
Power Supply	AC Adapter / approx 30VA			



Optional



SV-1A/SV-10A

Sine-wave Vibro Viscometers



- With FREE PC Connectivity and Windows graphing software
- Wide measurement range: 0.3 – 10 000mPa·s for SV-10, and 1 000 – 100 000mPa·s for SV-100
- Measure very low viscosities (down to 1/3 of water viscosity!), Temperature measurement from 0 to 160°C
- Fast measurements: 1st result within 15 seconds, and refresh in real time
- Possible continuous measurements in order to characterize changes of state
- High precision with a repeatability of $\pm 1\%$ of displayed value
- Small size sample: cups of 35ml, 13ml, 10ml, and even tubes of 2ml (with SV-1A)
- Possibility to do measurements directly into your containers: beakers, product packages...
- Low mechanical and thermal impact: Preservation of sample characteristics and its texture
- Measurements possible on foaming samples, on foam itself, on flowing or agitated samples
- Simple operation: no configuration - just push on the start button, easy to clean
- Calibration (judgement and even adjustment) of viscosity possible by the user: 1 or 2 points
- Simplified and automated calibration (including adjustment) with pure water (SV-10)

Model	SV-1A	SV-10A
Product Description	0.8-1000 cP / 0.8-1000mPa/s	0.3-1000 cP / 0.3-1000mPa/s
Measurement Range	0.3~1000mPa.s	0.3~10000mPa.s
Measurement Units	mPa.s, Pa.s, cP, P	mPa.s, Pa.s, cP, P
Sample Size	2ml~	10ml~
Temperature Range	0~160°C / precision 0.1°C	
Serial Cable	DB25 Male to DB9 Female (03000001)	
Power Supply	AC Adaptor TB-S139 included	

AD-8129TH

Thermal Printer



- Easy setting and operation with a numeric keypad and LCD display
- Built-in calendar and clock for printing date and time at any time
- Sends re-zero and weighing data request commands to the balance/scale
- Password lock function to prevent unauthorized changes to settings
- Clearly visible thermal printing with adjustable printing density
- Interval printing mode for printing weighing data at set intervals
- Chart printing mode that visualizes time-series variations in weighing data
- Dump printing mode useful for printing GLP/GMP/GCP/ISO-compliant output from the balance/scale
- Performs and prints the results of statistical calculations including STDEV together with the minimum weight (based on STDEV)
- Prints an ID number (8 alphanumeric characters) set by the user for the printer at any time
- Receives a print, paper feed, print statistical calculation results, print total, re-zero, or weighing data request command from the optional foot switch (AX-SW138)

AD-1688

**Weighing
Data Logger**

Save, Store & Retrieve - EASY!

- Dual Interface to import data from an A&D balance or scale to a PC
- No battery required as it receives power directly from the balance or PC
- Large memory: up to 5,000 weighing data sets can be stored
- Internal clock and interval mode



Save weighing results



Storage & transport



Data retrieval



AD-1683

Static Eliminator

- The AD-1683 generates positive and negative ions to eliminate static electricity
- Perfect for freeze dried and injection moulded items
- Compact and lightweight
- Enables accurate, stable weighing
- Use in conjunction with A&D products



AD-1682 Series

**Rechargeable
Battery Unit**

- Compatible Products: GH, GR, HR, GX, GF, GP, EK-i, EW-i, FC-i/Si, HC-i, HD and FX-i



Battery Weight	Approx. 1.1kg
Battery Life	4-50 hours depending on operating conditions and connected devices
Dimensions	57 (H) x 96 (W) x 124 (D) mm
Battery Type	Nickel-metal-hydride (Ni-MH) battery

PROTEX X-RAY

PROTECTION
FROM THE
INSIDE OUT



METAL DETECTION

PREVENTING
PRODUCT
RECALL



CHECK WEIGHING

REDUCING
PRODUCT
GIVEAWAY



AQS & DATA CAPTURE

ANALYSE
COLLECTED
DATA



“After all, if you dont measure it, how can you control it?”



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