Scientific Products

A&D Australasia
"Excellence in Measurement"

www.andaustralasia.com.au

EZI-CHECK™ *Checkweighing*

"After all, if you can't measure it, you can't control it!"

BEST VALUE

NEW PRODUCT

A&D EZI-Check™

"See our range of checkweighers and metal detectors"

- Light Capacity up to 2000g
- Customisable operator display
- The modular construction reduces system downtime and lightweight structure allow easy assembly and transportation
- A&D's original, automatic adjustment function enables easy product parameter settings or adjustments
- High speed, Digital Signal Processing (DSP)
- Dual range model. The checkweigher's weighing range and resolution can be selected from 500g x 0.01g or 2000g x 0.1g
- Meets the requirements of HACCP
- Easy switch to another production batch with minimal downtime
- Stainless steel frame construction meets IP65 requirements
- "Flat pack" ease of transport and setup

MODEL	AD-4691-500D	AD-4961-2KD
Weight capacity	500g	2000g
Resolution	0.01g	0.01g
Repeatability 3σ	±0.08g	±0.08g
Max weighing speed	200 pieces / min	
Max belt speed	120m / min; belt size 200mm x 350mm	
Weigh sensor	Digital load cell	
Photo sensor	Polarised retro-reflective	
Display	7 inch colour LCD Touch Panel	
Speaker	Voice guidance	
Sealed USB port (IP-65)	USB 2.0 (memory & upload)	
Serial interface	RS232C or RS485 available	
Ethernet	10 Base-T/100Base-T Auto-MDIX	
Modbus	Modbus RTU & TCP available	
Digital Output	Relay output for rejector	
Digital Input	Dry contact input	
Power Supply	AC 100-240V with Emergency Function	

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

0.01mg 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 Funtion

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BM Series

Semi Micro & Premium Precision Balances

Options

Internal Calibration

LAN-Ethernet Interface

Premium PRODUCT

Counting Function

Percentage Function

Quick USB

RS-232C Interface

SmartRange

Underhook

Date & Time

Memory Function

GLP Compliant

LCD Backlight

Software

Simple data capture with free WINCT software

▌ Easy, fanless elimination of static electricity using a built-in ionizer & antistatic breeze break

▌ Large weighing chamber for improved usability

▌ Built-in temperature, humidity, and atmospheric pressure sensors

▌ Interlockable slide doors allowing efficient operation with both hands

▌ Calibration: Automatically triggered based on temperature variation or by operator

▌ Can store up to 200 sets of weighing data (100 sets with date & time)

▌ AD-1688 as standard accessory: dedicated USB key to record weighing data as well as environmental parameters into MS Excel readable files

▌ 12 weighing units : g, mg, oz, ozt, ct, mom, dwt, GN, tael, tola, pcs (counting), %.

▌ Optional pipette accuracy testing kit (for BM-20/22)

▌ Output interfaces: RS-232C (standard), Quick USB (standard), Ethernet (optional)

Specifications	BM-20	BM-22	BM-252	BM-200	BM-300	BM-500
Capacity	22g	5.1g / 22	250g	220g	320g	520g
Resolution	0.001mg	0.001mg / 0.01mg	0.01mg	0.1mg	0.1mg	0.1mg
Repeatability (Std. Dev.)	0.0025mg (1g)	0.004mg (1g)/0.01mg	0.03mg (100g)	0.1mg	0.2mg	0.2mg
Stabilisation time (on FAST)	Approx 10secs	10secs / 8secs	Approx 8secs	Approx 3.5secs	Approx 3.5secs	Approx 3.5secs
Sensitivity drift	(10°C to 30°C, when self calibration is not used) ±2 ppm / °C					
Power Supply	AC Adaptor TB-S139					
Pan SIze	Ø 25mm (50 and 95mm for filter pans)		Ø 90mm			

SV-10/SV-100

Sine-wave Vibro Viscometers
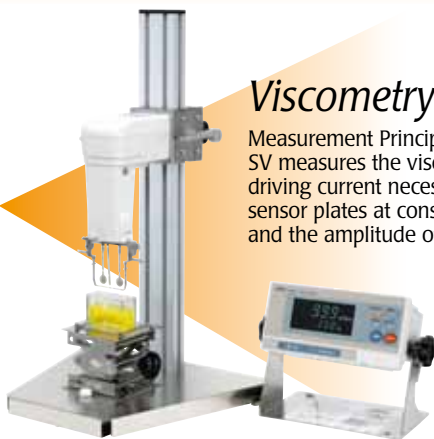
## Viscometry Revolution!

Measurement Principle
SV measures the viscosity by detecting the driving current necessary to resonate the 2 sensor plates at constant frequency of 30 Hz and the amplitude of less than 1mm

❚ Wide measurement range 0.3 − 10,000 mPa·s for SV-10, 1,000 − 100,000 mPa·s for SV-100

❚ Temperature measurement from 0 to 100ºC

❚ High measurement accuracy for repeatability of 1% of reading for viscosity measurement

❚ Small sample size of 35ml and optional 10ml cup and 13ml glass cup

❚ Easy cleaning for sensor plates and temperature sensor

❚ WinCT-Viscosity for data collection to PC and graphical display

❚ Viscosity Calibration function by users

❚ Temperature control application with Water Jacket AX-SV-37

WinCT-Viscosity

RsVisco is software to import the measurements of viscosity and temperature by SV series to a PC automatically and display the measurement result by graph on a real-time basis, the scaling function and the logarithm display is selectable in the function.
Saving the measurement data by "CSV" file and open it on the RsVisco is very convenient for your future analysis of your sample fluid viscosity.
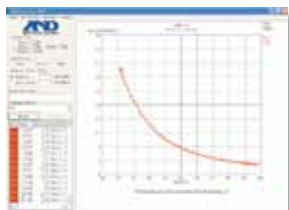
Temperature and viscosity of lubricating oil
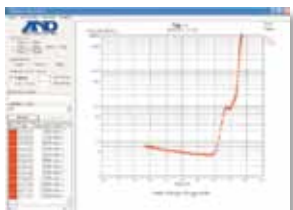
Heat change of egg white or Log display

Model	Range	Measurement Unit
SV-10	0.3 − 10,000 mPa·s	mPa·s, Pa·s, cP, P
SV-100	1 − 100 Pa·s	Pa·s, P

SV-1A/SV-10A

Sine-wave Vibro Viscometers

❚ The Sensor unit can be detached for field research purposes

❚ A portable carrying case is provided as standard

❚ 2ml Sample Measurement (SV-1A)

❚ X-Y-Z Stage for Fine Position Adjustment

❚ Anti-corrosive, Titanium Sensor Plates

❚ Standard WinCT-Viscosity,

❚ Serial-USB Converter

	SV-10A	**SV-1A**
Measurement Method	Sine-wave Vibro Viscometer using Tuning Fork Vibration Method (30Hz)	
Viscosity Measurement Range	0.3~10000mPa.s	0.3~1000mPa.s
Accuracy	1% Repeatability (S.D., 20~30ºD, No condensation	
Minimum Sample Amount	10ml~	2ml~
Temperature Measurement	0~160ºC/0.1ºC (32~320ºF/0.1ºF)	
Power Supply	AC Adaptor (Approx. 14VA)	

Pipette Accuracy Testers
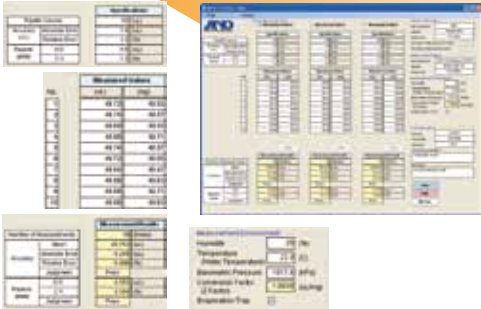
- ▮ Compliance with ISO8655 or any other specifications based on the "gravimetric method"
- ▮ Select from three models covering a wide volumetric range
- ▮ Easy test and data management using special WinCT-Pipette software
- ▮ Standard liquid thermometer and evaporation trap to ensure as precise measurements as possible
- ▮ Includes a calibration weight and tweezers for the balance

Pipette Specifications in accordance with ISO8655

Pipette Nominal Volume*4	ISO8655 Requirements (Gravimetric Method)				Balance Minimum Weighing Value	
	Maximum Permissible Error					
	Accuracy (Systematic Error)		Repeatability (Random Error)			
(µL)	±%	±µL	%	µL	mg	
20	1.0	0.2	0.5	0.1	0.01	*Corresponding Models*
50	1.0	0.5	0.4	0.2		
100	0.8	0.8	0.3	0.3		AD-4212B-PT *5
200	0.8	1.6	0.3	0.6		
500	0.8	4.0	0.3	1.5	0.1	
1000	0.8	8.0	0.3	3.0		AD-4212A-PT
2000	0.8	16	0.3	6.0		
5000	0.8	40	0.3	15.0		
10000	0.6	60	0.3	30.0		
Daily inspection, simplified verification					1*6	FX-300i-PT

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MS/MX/MF/ML

MS-70

MX-50

MF-50

ML-50

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- Fast and uniform heating with halogen lamp and innovative SRA (Secondary Radiation Assist) technology
- High repeatability with SHS (Super Hybrid Sensor) technology
- WinCT-Moisture for suggestion of optimum heating temperature (RsTemp) and real-time graphical display (RsFig) (standard for MS & MX)
- Sodium Tartrate Dihydrate for accuracy checking
- Calibration function for heating temperature with AX-MX-43 (MS/MX only)
- Memory function
- Five measurement programs (Standard, Quick, Automatic, Timer and Manual Mode)
- Four heating mode for MS/MX/MF (Standard, Quick, Step and Ramp Heating Mode)
- Large VFD display for clear and easy viewing
- Easy handling of the unit
- Low maintenance cost assured
- Progress window for heating check
- Self check function
- Quick reference card
- Standard RS232C
- Conformity to GLP / GMP / GCP / ISO with date/time
- ID, calibration data and check record output

WinCT-Moisture Measurement example

WinCT−Moisture consists of RsTemp software to determine the heating temperature and RsFig software for graphics.

RsTemp
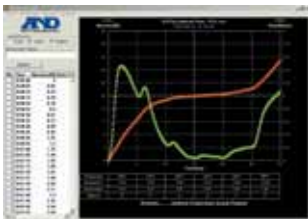
RsFig

Soybean flour
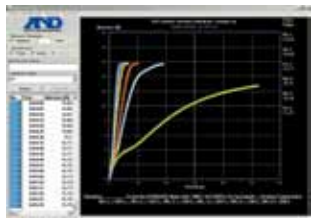
Sodium tartrate dihydrate

Model	*MS-70*	*MX-50*	*MF-50*	*ML-50*
Measurement Method	400W straight halogen lamp heating system with SRA filter and SHS weighing technology			
Max Sample Weight Capacity	71g	51g		
Weight Resolution	0.0001g	0.001g	0.002g	0.005g
Moisture Content Display	0.001%/0.01%/0.1%	0.01%/0.1%	0.05%/0.1%/1%	0.1%/1%
Moisture Content over 1g	0.05%	0.10%	0.20%	0.5%
Accuracy over 5g	0.01%	0.02%	0.05%	0.1%
Heating Technology	Halogen lamp (Straight type, 400 Watt max, 5000 hours)			
Drying Temperature	30 − 200C	50 − 200C		
Measurement Programs	Standard Mode / Automatic Complete Mode / Timer Mode / Manual Mode / Quick Mode			
Measurement Mode	Wet base / Dry base / Solid content / Ratio / Weight			
Display Type	Large VFD			
Sample Pan Size	Ø 85mm			

GH *Series*

Semi-Micro / Analytical Balances

Internal Calibration · ID Number · Time & Date · Data Memory

LCD Display

0.01 mg Semi-Micro Resolution

FDC Full Digital Calibration

RS-232C Interface

Counting Function

WinCT

GLP Compliant

Auto Power ON

▮ Wide weighing range for 0.01mg resolution, 101g for GH252

▮ One-Touch Automatic Calibration by motor-driven internal calibration mass (GH only)

▮ Automatic Self Calibration when the ambient temperature changes (GH only)

▮ Standard RS-232C interface for printer, PC or other peripherals

▮ GLP / GMP / ISO compliance

▮ Data memory function (GH only)

▮ ID number for GLP output

▮ Auto Power ON function

▮ Big weighing chamber of 183 (W) x 148.5 (D) x 251 (H) mm

▮ WinCT CD ROM included free

Model	Capacity	Resolution	Pan Size
GH-252	250g / 101g	0.1 / 0.01mg	Ø 90mm

LCD Display

0.01 mg Semi-Micro Resolution

Internal Calibration

RS-232C Interface

Counting Function

FDC Full Digital Calibration

GLP Compliant

WinCT

Splash Proof

❚ One Touch, Fully Automatic Self-Calibration
❚ Easy Access Door
❚ Splash Proof Keyboard and Display
❚ Advanced Stabilization Software
❚ Automatic Adjustable Environment Setting
❚ Multiple Weighing Units
❚ GLP Compliance
❚ Standard RS-232C communication with PC
❚ Standard Underhook

WinCT: CD ROM as a standard accessory

Model	Capacity	Resolution	Pan Size
GR-202	210g / 42g	0.1 / 0.01 mg	
GR-200	210g	0.1 mg	Ø 85mm
GR-300	310g	0.1 mg	

HR-A/HR-AZ

Compact Analytical Balances

BEST VALUE

NEW MODELS

(HR-AZ) Internal Calibration

(HR-A) External Calibration

Counting Function

Percentage Function

Comparator Function

SHS Super Hybrid Sensor

Underhook

Statistical Calculation

(HR-AZ) Date & Time

VFD Display

GLP Compliant

Buzzer

RS-232C Interface

Software

Rechargeable Battery

LAN-Ethernet Interface

Quick USB

HR-A: External Calibration
HR-AZ: Internal Calibration

NEW!! Smart range 251 models 60g x 0.1mg

▌ Easy data capture with free WINCT software

▌ Strong protection against dust & water

▌ Shock absorber function

▌ Auto Power ON/OFF function

▌ B5 size footprint for use in narrow space

▌ Reverse Backlit LCD Display for easy to read weighing results

▌ SCF - Statistical calculation function

▌ Fast compact SHS Sensor, response time of about 2 seconds

▌ Quick USB interface − no driver installation required (optional)

▌ LAN − Ethernet interface with WinCT-Plus Software (optional)

▌ Easily removable large breeze break

▌ Built-in rechargeable NiMH battery pack (optional)

Specifications	HR-250A	HR-251A	HR-250AZ	HR-251AZ
Capacity	252g	62g / 252g^{iv}	252g	62g / 252g^{iv}
Resolution	0.1mg	0.1mg / 1mg	0.1mg	0.1mg / 1mg
Internal Calibration	No	No	Yes	Yes
Pan Size	Ø 90mm	Ø 90mm	Ø 90mm	Ø 90mm
Linearity	±0.3mg	±0.3mg / ±0.1mg	±0.3mg	±0.3mg / ±0.1mg
Power Supply	AC Adaptor TB-S139			

* iv Smart range function: The minimum weighing value will switch to 1 mg automatically when the display value exceeds 62 g but returns to 0.1 mg by pressing RE-ZERO (tare)

GX *Series*

Multi-functional Precision Balances

With optional glass breeze break

SHS Super Hybrid Sensor

Comparator Function

888 VFD Display

Counting Function

Internal Calibration

GLP GLP Compliant

WinCT

RS-232C Interface

IP54

Trade Approved NMI Cert. 6/4C/219

❚ Fast, Super Hybrid Sensor (SHS) gives you the ultimate in response speed - Just ONE Second!

❚ Resolution Ranges : 1/60,000 to 1/600,000

❚ Internal Calibration makes calibrating your GX Balance easy when you relocate or bump your balance. Just push a button !

❚ Automatic Self-Calibration calibrates the balance when it detects changes in the ambient temperature

❚ Large, bright Vacuum Fluorescent Display - see the display even in the dark

❚ Percentage, Counting Functions & Comparator functions

❚ ACAI Counting Function for highly accurate counting

❚ GLP/GMP/ISO Compliance

WinCT: CD ROM included FREE !

Model	Capacity	Resolution	Pan Size
GX-200	210g	0.001 / 0.01g*	
GX-400	410g	0.001 / 0.01g*	
GX-600	610g	0.001 / 0.01g*	128 x 128 mm
GX-800	810g	0.001g	
GX-1000	1,000g	0.001g	
GX-2000	2,100g	0.01 / 0.1g*	
GX-4000	4,100g	0.01 / 0.1g*	
GX-6100	6,100g	0.01 / 0.1g*	165 x 165 mm
GX-8000	8,100g	0.1g	

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*Trade Approved Resolution

GF *Series*

With optional glass breeze break

SHS
Super Hybrid Sensor

888
VFD Display

Counting Function

RS-232C Interface

GLP Compliant

FDC Full Digital Calibration
Full Digital Calibration

IP54
IP54

Comparator Function

WinCT
WinCT

Trade Approved NMI Cert. 6/4C/219

▌ Fast, new Super Hybrid Sensor (SHS) gives you the ultimate in response speed - Just ONE Second!

▌ Resolution Ranges : 1/60,000 to 1/600,000

▌ Large, bright Vacuum Fluorescent Display - see the display even in the dark

▌ Percentage, Counting Functions & Comparator functions

▌ ACAI Counting Function for highly accurate counting

▌ GLP/GMP/ISO Compliance

WinCT: CD ROM included FREE !

Model	Capacity	Resolution	Pan Size
GF-300	310g	0.001 / 0.01g*	128 x 128 mm
GF-400	410g	0.001 / 0.01g*	
GF-1200	1,210g	0.01 / 0.1g*	165 x 165 mm
GF-3000	3,100g	0.01 / 0.1g*	
GF-4000	4,100g	0.01 / 0.1g*	
GF-6100	6,100g	0.01 / 0.1g*	
GF-6000	6,100g	0.1 / 1g*	

*Trade Approved Resolution

GX-K/GF-K *Series*

Precision Industrial Balances

GX-K

GF-K

SHS — Super Hybrid Sensor
GLP — GLP Compliant
FDC — Full Digital Calibration
ID — ID Number
888 — VFD Display
ON — Auto Power ON
RS-232C Interface
Memory — Data Memory
WinCT
Time & Date
IP65
Counting Function
Smart Range
Animal Weighing
Comparator Function
Internal Calibration

▌ Ultra fast response speed by Super Hybrid Sensor (SHS) – Just 1.5 seconds
▌ One-Touch Automatic Calibration by motor-driven internal calibration mass (GX-K only)
▌ Automatic Self Calibration when the ambient temperature changes (GX-K only)
▌ Water and Dust proof – IP65
▌ Standard RS-232C interface
▌ GLP / GMP / GCP / ISO compliance
▌ ID number for GLP output
▌ WinCT CD ROM included free
▌ Counting function with Automatic Counting Accuracy Improvement (ACAI)
▌ Auto Power ON function
▌ Display Auto Power OFF function
▌ Data memory function
▌ Smart Range function (GX/GF-8K2 / 32K only)

Model	Capacity	Resolution	Pan Size
GX-8K	8.1 kg	0.01 / 0.1 g*	
GX-8K2**	8.1 / 2.1 kg	0.01 / 0.1 g*	
GX-10K	10.1 / 0.01 kg	0.01 / 0.1 g*	
GX-20K	21 kg	0.1 / 1 g*	
GX-30K	31 kg	0.1 / 1 g*	270 x 210 mm
GF-8K	8.1 kg	0.01 g	
GF-10K	10.1 / 0.01 kg	0.01 g	
GF-12K	12 kg	0.1 g	
GF-30K	30 kg	0.1 g	

* Trade Approved Resolution   **SmartRange Function

GP Series

Super Hybrid Sensor (SHS)

Counting Function

VFD Display

GLP Compliant

Internal Calibration

IP65

RS-232C Interface

Splash Proof

Current Loop

WinCT

Full Digital Calibration (FDC)

Smart Range

Comparator Function

Trade Approved
N.M.I Cert. 6/4C/219 *(except GP-40K)*

- ❚ Swing arm design or separate meterhead/platform design
- ❚ Easy calibration with internal calibration mass
- ❚ 1.5 second response speed with SHS
- ❚ Rugged aluminium alloy & stainless steel construction
- ❚ GLP/GMP/ISO Compliance
- ❚ RS-232C as standard
- ❚ Large blue Vacuum Fluorescent Display
- ❚ Data memory function
- ❚ Counting function with ACAI (Automatic Counting Accuracy Improvement)
- ❚ Smart Range function (GP-32K / - 102K)
- ❚ GP-S for detached display unit (GP-30KS / -100KS)
- ❚ IP-65 for Splash proof Keyboard Display and Base unit
- ❚ Comparator function

Model	Capacity	Resolution	Pan Size
GP-12K	12kg	0.1g	384mm x 344 mm
GP-20K	21kg	0.1g	
GP-32K*1	31kg / 6.1kg	1g / 0.1g	
GP-30K/30KS*2	31kg	0.1g	
GP-32KS	31kg	0.1g	
GP-40K	41kg	0.5g	
GP-60KS/61KS	61kg	1g	
GP-61KA	61kg	1g	
GP-100K	101kg	1g	386mm x 346 mm
GP-102K*1	101kg / 61kg	10g / 1g	

*1: SmartRange Function   *2: GP-KS means GP with detached display unit

FZ/FXi *Series* *Precision Balances*

Trade Approved NMI Cert. 6/4C/269
(FZ-i only, 1/3000)

Features:

▌ Internal Calibration: FZ-i
▌ External Calibration: FX-i
▌ Compact SHS-Super Hybrid Sensor ensures 1 second stabilisation
▌ Multiple Weighing Units-15 units of measurement are selectable
▌ Vacuum Fluorescent Display-Great Visibility from all reading angles
▌ SCF Statistical Calculation Function-Can display or output a complete stats package
▌ USB Interface-Optional USB interface with no driver installation necessary
▌ RS232 Data Interface-RS 232C Interface is standard on the FZ/FX-i range
▌ GLP/GMP/GCP/ISO Compliant-Complies with your lab management system
▌ Digital Calibration Function-Simple calibration sequence using external masses
▌ Animal Weighing Mode-Suitable for weighing unstable samples
▌ Comparator Function-Adjust balance response time to suit environment
▌ Optional Ethernet Interface-Connect to your LAN
▌ Optional Rechargeable Battery-Total Portability for your balance
▌ Standard Breeze Break on 1mg models (FX-i)
▌ Standard Breeze Break on all models (FZ-i)

Additional Information:

A perfect solution to a balance requirement where space is at a premium. With a footprint the size of B5 sheet of paper the FX-i will suit applications previously dismissed due to the lack of a quality balance of this size.

Capacities:

Model	Capacity
FZ/FX-300i	320g x 0.001g
FZ/FX-3000i	3200g x 0.01g
FZ/FX-500i	520g x 0.001g
FZ/FX-5000i	5200g x 0.01g

Options:

Part Number	Description
FZ/FXi OP-02	USB Interface with cable
FZ/FXi OP-08	Ethernet Interface with WinCT Plus Software
FZ/FXi OP-09	Rechargeable Battery
FZ/FXi OP-10	Small Breeze Break
FZ/FXi OP-11	Large Breeze Break

FZ/FXi-WP Series

Precision Balances

Counting Function

Comparator Function

RS-232C Interface

Auto Power ON

Animal Weighing

Full Digital Calibration

Super Hybrid Sensor

IP65

Auto Power OFF

ID Number

VFD Display

GLP Compliant
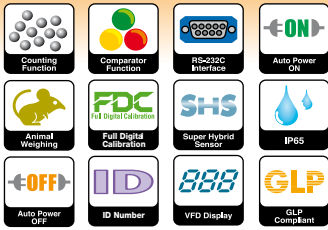
Features:
- Internal Calibration: FZ-i
- External Calibration: FX-i
- IP65
- Compact B5 size
- Fast stabilisation speed - Just 1 second
- Large bright Vacuum Fluorescent Display
- Shock absorber function
- Statistical calculation function
- Multiple weighing units
- GLP, GMP, GCP, ISO compliant
- Digital Calibration Function
- Comparator function
- Buzzer function
- Hold function for Animal weighing application
- Counting function with ACAI (Automatic Counting Accuracy Improvement)
- Capacity indicator function
- Percent mode function
- Auto Power ON function
- Auto Power OFF function
- Built-in Rechargeable Battery - optional
- Under hook for suspended weighing
- Adjustable foot
- RS232 Data Interface-RS 232C Interface is standard on the FZ/FXi-WP range
- Standard Breeze Break on 1mg models (FX-i)
- Standard Breeze Break on all models (FZ-i)

Trade Approved NMI Cert. 6/4C/269
(FZ-i only, 1/3000)

Applications
The FZ/FX-iWP will be completely at home in any area where moisture or dust would prove a barrier to a normal top pan precision balance. The balance is immune to product spillages both wet and dry and has the rugged performance to cope with even the toughest environment. A high quality that can be used almost anywhere.

Capacities:

Model	Capacity
FZ/FX-300iWP	320g x 0.001g
FZ/FX-3000iWP	3200g x 0.01g

Options:

Part Number	Description
FZ/FXi-02	Quick USB interface with cable
FZ/FXi-08	Ethernet interface with WinCT-Plus software
FZ/FXi-09	Built-in rechargeable battery
FZ/FXi-WP-10	Small breeze break
FZ/FXi-WP-11	Large breeze break

EJ Series

Compact Balances

External Calibration

LCD Backlight

Counting Function

Percentage Function

Comparator Function

Normal Battery

GLP Compliant

Options

Underhook

Quick USB

RS-232C Interface

Software

▌ 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-123	EJ-303	EJ-410	EJ-610	EJ-1500	EJ-4100	EJ-6100
Weight capacity	120g	300g	410g	610g	1500g	4100g	6100g
Min. display "d"	0.001g		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-i *Series*

Compact/ Personal Balances

▌ Compact and lightweight

▌ Large wide angle LCD display with backlit

▌ High Resolution up to 1/60,000

▌ Standard RS-232C communication with PC

▌ 9 Multi-weighing Units with user priority start-up

▌ Counting Function with ACAI

▌ Standard Comparator Function

▌ Full Digital Calibration with optional user definable mass setting

▌ Optional Rechargeable Battery Pack

▌ Overload Protection

▌ GLP Compliance

Model	Capacity	Resolution	Pan Size
EK-410i	400g	0.01g	Ø 110mm
EK-610i	600g	0.01g	
EK-4100i	4000g	0.1g	133 x 170mm
EK-6100i	6000g	0.1g	
EK-6000i	6000g	1g	
EK-12Ki	12kg	1g	

EW-i *Series*

Compact/ Personal Balances

▌ Triple range weighing

▌ Standard PS-232C communication with PC

▌ Compact and lightweight

▌ Large wide angle LCD display with back light

▌ High Resolution

▌ 9 Multi-Weighing Units with user priority start-up

▌ Counting Function with ACAI

▌ Standard Comparator Function

▌ Full Digital Calibration with optional user definable mass setting

▌ Optional Rechargeable Battery Pack

Model	Capacity	Resolution	Pan Size
EW-150i	30g	0.01g	Ø 110mm
	60g	0.02g	
	150g	0.05g	
EW-1500i	300g	0.1g	133 x 170mm
	600g	0.2g	
	1500g	0.5	
EW-12Ki	3000g	1g	
	6000g	2g	
	12000g	5g	

Trade Approved NMI Cert. 6/4C/219*

*Trade increment requires reduced ranges

AD-8121B

Multi-Function Printer

- Dot Matrix Impact Printer
- Multiple Weighing & Statistical Functions
- Battery or AC Adapter Operation

AD-1682

Rechargeable Battery Unit

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

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

AD-1683

Static Eliminator

- AD1683 generates positive and negative ion to eliminate the static electricity

AD-8920

Remote Display

- Bright VFD display (13mm) to connect to either RS-232C or Current Loop interface

888
VFD Display

AD-8922

Remote Controller

888
VFD Display

- AD-8922 is a remote controller to connect A&D's weighing instruments to display the weighing data and control the weighing instrument with key operation

SJ-WP *Series*

IP65

Normal Battery

External Calibration

NMI Trade Approved

NEW PRODUCT

▌ Stainless steel weighing pan

▌ NMI Approval pending

Model	Weighing Capacity
SJ-3000WP	3000g x 0.5g
SJ-6000WP	6000g x 1g
SJ-15KWP	15kg x 2g
SJ-30KWP	30kg x 5g

SK-WP *Series*

Dust & Waterproof Digital Scales

LCD Display

Battery Operation (DD)

Auto Power OFF

Full Digital Calibration

Splash Proof

▌ NMI Approved for trade except for SK-5001WP

▌ Dust and water proof (IP65)

▌ Stainless steel body and Weighing Pan

▌ Large & Clear LCD Display (25mm)

▌ 1/2000 Resolution (SK-5001WP: 1/5000)

▌ Net Weight / Stability Indication

▌ Portable (6 D Type Batteries. Batteries not included)

▌ Long battery life: Approx. 1200 hours with alkaline cells at 20℃, AC Adapter included

Trade Approved
N.M.I Cert. 6/4C/216

Model	Capacity	Resolution	Pan Size
SK-1000WP	1000g	0.5g	
SK-2000WP	2000g	1g	
SK-5000WP	5000g	2g	232 x 192mm
SK-5001WP	5000g	1g	
SK-10KWP	10Kg	5g	
SK-20KWP	20Kg	10g	

MC

SHS
Super Hybrid Sensor

888
VFD Display

Internal Calibration

RS-232C Interface

Accumulation Function (MC-10K /30K)

IP65 (MC-10K /30K)

GLP
GLP Compliant

Counting Function

Comparator Function

Underhook

Software

Percentage Function

Animal Weighing

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

Used for Mass Verification

❚ Precision balance with extended resolution

❚ Extra decimal place for monitoring fine weight changes with heavy tare weights

❚ Stabilizing filter to lessen errors due to drafts or vibrations

❚ Auto-centering pan to avoid corner-load errors and ensure higher accuracy (optional)

❚ Internal calibration mass for simplified calibration of the balance

❚ Equipped with a glass breeze break (MC-1000/6100) or simple breeze break (MC-10K/30K) as standard

❚ Fast stabilization of approx. 1.5 seconds

❚ GLP/GMP/GCP/ISO compliant output

❚ Large bright vacuum fluorescent display

❚ Multiple weighing units of measurement

Model	MC-1000	MC-6100	MC-10K	MC-30K
Weighing capacity	1100g	6100g	10.1kg	30kg
Minimum weighing value	0.0001g	0.001g	0.001g	0.01g
Weigh Pan (mm)	128 x 128	165 x 165	270 x 210	270 x 210
Stabilisation Time	Approx. 1 second (on FAST setting)			
Power supply	AC Adapter TB-S139			
Calibration	Internal or External Calibration			

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 0.01mg

▮ 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 5 m)

▮ Securable to a base by replacing levelling feet with screws

Model & Accessories	Capacity	Resolution	Pan Size
AD-4212B-23	21g	0.001mg	Ø 34mm
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	50 x 50mm
AD-4212B-301	310g	0.1mg	50 x 50mm
AD-4212C-301*	51g/320g	0.1mg/0.01mg	50 x 50mm
AD-4212C-3001*	510g/3200g	1mg/10mg	50 x 50mm
AD-4212C-300	320g	1mg	50 x 50mm
AD-4212C-600	610g	1mg	50 x 50mm
AD-4212C-3000	3200g	10mg	50 x 50mm
AD-4212C-6000	6100g	10mg	50 x 50mm

* SmartRange: Retains fine precision when tare is used.

Super Hybrid Sensor

VFD Display (AD-4212B)

External Calibration

Comparator Function (AD-4212B)

Software

Buzzer (AD-4212B)

SmartRange (AD-4212B)

GLP Compliant (AD-4212B)

RS-232C Interface (AD-4212B)

Date & Time (AD-4212B)

Memory Function (AD-4212B)

Percentage Function

Counting Function

Option

LAN-Ethernet Interface

HL-WP *Series*

Dust & Waterproof Digital Scales

- LCD Display
- Full Digital Calibration (FDC)
- Battery Operation (AA)
- IP65
- Auto Power OFF

▍ Washable (Dust & Waterproof, IP65)

▍ Small-Footprint

▍ High Resolution (1/3000)

▍ Portable, AA Type Batteries, (Batteries not included)

▍ Clear LCD Display

▍ Stability Indicator

▍ Separate Keys for Power and Re-zone

▍ Auto Power Off

▍ AC Adapter (Option)

Model	Capacity	Resolution	Pan Size
HL-300WP	300g	0.1g	128x128mm
HL-1000WP	1000g	0.5g	
HL-3000WP	3000g	1g	
HL-3000LWP	3000g	1g	174x137mm

HT *Series*

Compact Scales

- External Calibration
- LCD Display
- Auto Power OFF
- Normal Battery

▍ 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 adaptor (optional)				
Pan size	Ø 110mm	132 (W) x 130 (D) mm			
Dimensions	195 (W) x 136 (D) x 44 (H) mm				

▮ Approved for Trade (NMI 6/4C/255) for 1/1000 accuracy (Does not include SJ-5001)

▮ High resolution
(SJ-5000HS:1/2500, SJ-12KHS:1/2400, SJ-1000, SJ-1000HS/2000HS:1/2000)

▮ Fast stability time - Less than 1 second

▮ large wide LCD display (25mm height)

▮ Durable body

▮ Large weighing pan 230mm x 190mm

▮ Full digital calibration function

▮ Multiple weighing units - g, Ib, oz, and lb-oz

▮ Battery operation with 4 x D size dry batteries

▮ Simple and easy to change the batteries

▮ AC adapter included as standard

▮ Automatic power OFF function

▮ Spirit level and adjustable feet for accurate weighing

▮ Status indication function - Battery, Stable, Zero and Net

	SJ-1000HS	SJ-2000HS	SJ-5000HS	SJ-12KHS	SJ-5001HS	SJ-20KHS	SJ-30KHS
Capacity	1000g	2000g	5000g	12000g	5000g	20000g	30000g
Resolution	0.5g / 1g	1g / 2g	2g / 5g	5g / 20g	1g	10g	20g
Power	4 x "D" size batteries or AC adapter						
Battery life	Approx. 800 hours with alkaline cells at 20ºC						
Pan size	230mm (W) x 190mm (D)						

HJ-150 *Series*   **Compact Scale**

LCD Backlight

FDC Full Digital Calibration
Full Digital Calibration

OFF
Auto Power OFF

❚ Compact design & light weight
❚ Selectable weighing unit − g or oz
❚ Tare function
❚ Battery operation
❚ LCD display with blue color backlight
❚ Calibration function with Standard calibration mass (100g)
❚ Protective cover
❚ Batteries included

Model	Capacity	Resolution	Pan Size
HJ-150	150g	0.1g	60 x 64mm

A·N·D
"Excellence in Measurement"

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Email: sales@andaustralasia.com.au
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Internet page: NEW ZEALAND: www.scales.co.nz