



Scientific Products

AND

A&D Australasia

"Excellence in Measurement"

<http://www.andaustralasia.com.au>

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 Flexi Coms

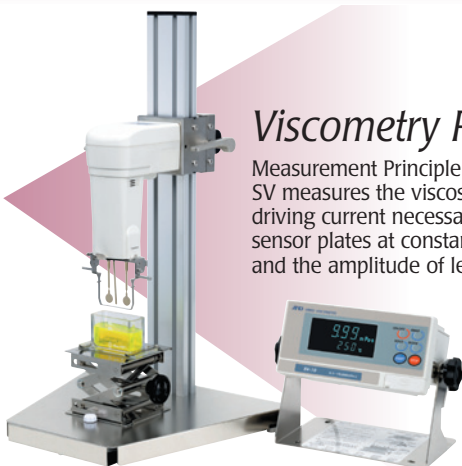
Allows you to print out as you format the printer



Percentage Function

SV-10/SV-100

Sine-wave Vibro Viscomteres



Viscometry Revolution!

Measurement Principle

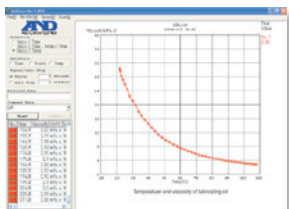
SV measures the viscosity by detecting the driving current necessary to resonate the 2 sensor plates at constant frequency of 30 Hz and the amplitude of less than 1mm

- 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 100°C
- 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

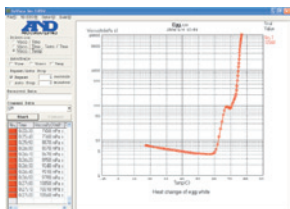
WinCT-Viscosity

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-1A	SV-10A
Measurement Method	Sine-wave Vibro Viscometer using Tuning Fork Vibration Method (30Hz)	
Viscosity Measurement Range	0.8~1000mPa.s	0.3~1000mPa.s
Accuracy	1% Repeatability (S.D., 20~30°D, No condensation)	
Minimum Sample Amount	2ml~	10ml~
Temperature Measurement	0~160°C/0.1°C (32~320°F/0.1°F)	
Power Supply	AC Adaptor (Approx. 14VA)	

Pipette Accuracy Testers



Pipette Volume	Specifications
Accuracy (mL)	1.0 (mL)
Repeatability (mL)	0.1 (mL)
Repeatability (CV)	1.2 (%)

No.	Measured Values (mL)	(mg)
1	49.72	49.69
2	49.74	49.67
3	49.69	49.43
4	49.89	49.71
5	49.74	49.57
6	49.72	49.59
7	49.69	49.47
8	49.89	49.63
9	49.89	49.71
10	49.89	49.63

Model	Measured Values (mL)	(mg)
1	49.72	49.69
2	49.74	49.67
3	49.69	49.43
4	49.89	49.71
5	49.74	49.57
6	49.72	49.59
7	49.69	49.47
8	49.89	49.63
9	49.89	49.71
10	49.89	49.63

Number of Measurements	Measured Results
Mean	49.72 (mL)
Accuracy	0.24 (mL)
Repeatability	0.14 (mL)
Repeatability (CV)	0.30 (%)
Repeatability (CV)	0.14 (%)

Measurement Environment	Value
Humidity	29 (%)
Temperature (Water Temperature)	22.0 (°C)
Barometric Pressure	1017.6 (hPa)
Conversion Factor (Z Factor)	1.0025 (mL/mg)
Evaporation Trap	<input checked="" type="checkbox"/>

- 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	
50	1.0	0.5	0.4	0.2		
100	0.8	0.8	0.3	0.3		
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		
2000	0.8	16	0.3	6.0		
5000	0.8	40	0.3	15.0		
10000	0.6	60	0.3	30.0	1*6	
Daily inspection, simplified verification						

Corresponding Models

AD-4212B-PT*5

AD-4212A-PT

FX-300i-PT

MS/MX/MF/ML



MS-70



MX-50



MF-50



ML-50

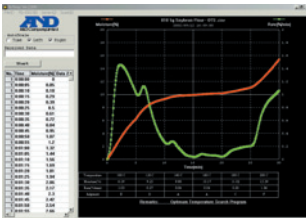
Moisture Analyzers

- 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 to see
- 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

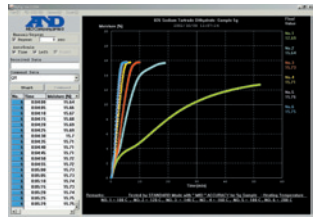
WinCT-Moisture consists of RsTemp software to determine the heating temperature and RsFig software for graphics.

RsTemp



Soybean flour

RsFig

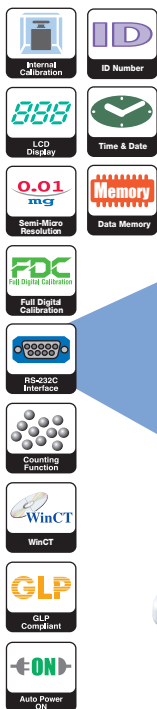


Sodium tartrate dihydrate

Model	<i>MS-70</i>	<i>MX-50</i>	<i>MF-50</i>	<i>ML-50</i>
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 / HR-i Series

Semi-Micro / Analytical Balances



- Wide weighing range for 0.01mg resolution, 101g for GH252, 51g for HR202i
- 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
GH-202	220g / 51g	0.1 / 0.01mg	
GH-300	320g	0.1mg	
GH-200	220g	0.1mg	
GH-120	120g	0.1mg	
HR-202i	220g / 51g	0.1 / 0.01mg	
HR-300i	320g	0.1mg	

GR Series

Semo-Micro/ Analytical Balances



- 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 / 0.01mg	Ø 85mm
GR-120	120g	0.1mg	
GR-200	210g	0.1mg	
GR-300	310g	0.1mg	

HR Series

Analytical Balances



- Full Digital Calibration
- GLP Compliance
- Percentage and Counting Functions
- Digital Preset Tare
- Last Digit Suppression
- One Touch Printing
- Underhook Weighing, Security Rings, External Re-Zeroing Connector
- Optional RS-232C, Current Loop
- Optional Internal Rechargeable Battery Pack

Model	Capacity	Resolution	Pan Size
HR-60	60g	0.1mg	Ø 85mm
HR-120	120g	0.1mg	
HR-200	210g	0.1mg	

GX Series

Multi-functional Precision Balances

With optional glass
breeze break



- 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 and Internal Calibration Mass 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	0.001g	128 x 128 mm
GX-400	410g	0.001g	
GX-600	610g	0.001g	
GX-2000	2,100g	0.01g	165 x 165 mm
GX-4000	4,100g	0.01g	
GX-6100	6,100g	0.01g	
GX-6000	6,100g	0.1g	
GX-8000	8,100g	0.1g	

With optional glass
breeze break



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N.MI 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-200	210g	0.001g	128 x 128 mm
GF-300	310g	0.001g	
GF-400	410g	0.001g	
GF-600	610g	0.001g	
GF-1200	1,210g	0.01g	165 x 165 mm
GF-2000	2,100g	0.01g	
GF-3000	3,100g	0.01g	
GF-4000	4,100g	0.01g	
GF-6100	6,100g	0.01g	
GF-6000	6,100g	0.1g	
GF-8000	8,100g	0.1g	

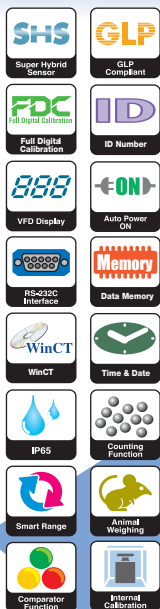
GX-K/GF-K Series

Precision Industrial Balances

GX-K



GF-K



- 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	8.1kg	0.01g	270 x 210 mm
GX-8K2*	8.1 / 2.1kg	0.1 / 0.01g	
GX-12K	12kg	0.1g	
GX-20K	21kg	0.1g	
GX-30K	31kg	0.1g	
GX-32K*	31 / 6.1kg	1 / 0.1g	
GF-8K	8.1kg	0.01g	
GF-8K2*	8.1 / 2.1kg	0.1 / 0.01g	
GF-12K	12kg	0.1g	
GF-20K	21kg	0.1g	
GF-30K	31kg	0.1g	
GF-32K*	31 / 6.1kg	1 / 0.1g	

*SmartRange Function



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- Swing arm design or separate meterhead/platform design
- Easy calibration with internal calibration mass
- 1.5 second response speed with SHS
- Rugged aluminum alloy & stainless steel construction
- GLP/GMP/ISO Compliance
- RS-232C, comparator output (3 levels), analog output
- 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	384 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-40K	41kg	0.5g	
GP-60K	61kg	1g	386 x 346 mm
GP-100K/100KS* ²	101kg	1g	
GP-102K* ¹	101kg / 61kg	10g / 1g	

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

FZ/FX-i Series

Precision Balances



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 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-120i	122g x 0.001g
FZ/FX-200i	220g x 0.001g
FZ/FX-300i	320g x 0.001g
FZ/FX-1200	1200g x 0.01g
FZ/FX-2000i	2200g x 0.01g
FZ/FX-3000i	3200g 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-WP Series

Precision
Balances



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
- Under hook for suspended weighing
- Adjustable foot
- RS232 Date Interface-RS 232C Interface is standard on the FXi-WP range
- Standard Breeze Break on 1mg models (FX-i)
- Standard Breeze Break on all models (FZ-i)

Applications

The 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-120iWP	122g x 0.001g
FZ/FX-200iWP	220g x 0.001g
FZ/FX-300iWP	320g x 0.001g
FZ/FX-1200iWP	1220g x 0.01g
FZ/FX-2000iWP	2200g x 0.01g
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



- [illegible]

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-120i	120g	0.01g	Ø 110mm
EK-200i	200g	0.01g	
EK-300i	300g	0.01g	
EK-410i	400g	0.01g	
EK-610i	600g	0.01g	
EK-600i	600g	0.1g	133 x 170mm
EK-1200i	1200g	0.1g	
EK-2000i	2000g	0.1g	
EK-3000i	3000g	0.1g	
EK-4100i	4000g	0.1g	
EK-6100i	6000g	0.1g	
EK-6000i	6000g	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	
	3000g	1g	
	6000g	2g	
EW-12Ki	6000g	2g	
	12000g	5g	

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AD-4212

Production Weighing System



If you are looking to build a new production line or just upgrade the old one, you should take a look at our Production Weighing System - the AD-4212

■ High resolution and Fast response speed

AD-4212-100	Weighing capacity & minimum weighing value	110g / 0.1mg
	Stabilization time	Approx. 1.1 sec.
AD-4212-200	Weighing capacity & minimum weighing value	210g / 1mg
	Stabilization time	Approx. 0.8 sec.

■ Standard RS-232C interface

■ Re-Zero operation via a standard external contact input

■ HI, OK or LO indicator with buzzer and relay output

■ Data memory function

■ Complies with IP-54

■ GLP/GMP output

■ Windows Communication Tools (WinCT) comes standard.

■ Multi-weighing units: g, mg, OZ, Lb, LOZ, Ozt, ct, mom, dwt, GN, TL, t, MS and PC (counting) and Pct (percent)

■ Auto-display OFF and Auto Power ON functions

■ Stainless steel breeze break is provided for AD-4212-100

■ Clear VFD display

■ Calibration weight (50g weight for AD-4212-100 & 100g weight for AD-4212-200) is provided.

■ Quick reference card is provided.

■ 2-meter long connection cable between weighing sensor unit and display unit

■ D-sub 25-pin connector is provided to mate with I/O unit

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

AD-8922

Remote controller



- 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



- Large, easy to read Wide Angle LCD
- Digital Calibration for easy calibration
- Portable Operation with 6 D-Type Batteries
- Low Battery Indicator
- Auto Power Off
- Light weight and easy to handle
- Net Weight & Stability Indicators
- Separate Keys for Power & Re-Zero
- Optional Stainless Steel Weighing Pan



Model	Capacity	Resolution	Pan Size
SK-1000 / (D)	1000g	0.5g	230 x 190mm
SK-2000 / (D)	2000g	1g	
SK-5000 / (D)	5000g	2g	
SK-5001	5000g	1g	
SK-10K / (D)	10kg	5g	
SK-20K / (D)	20kg	10g	
SK-30K / (D)	30kg	20g	

SK-WP Series

Dust & Waterproof Digital Scales



- Washable (Dust & Waterproof, IP65)
- Stainless Steel Body and Weighing Pan
- Large & Clear LCD Display (25mm)
- 1/2000 Resolution (SK-5001WP:1/5000)
- Designed to Meet Weights & Measure Regulation
- Portable (6D Type Batteries, Batteries not include)
- Net Weight & Stability Indication
- Low Battery Indication
- Separate Keys for Power and Re-zone
- Auto Power Off
- AC Adapter (Option)



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

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

HL-WP Series

**Dust & Waterproof
Digital Scales**



LCD Display



Full Digital Calibration



Battery Operation (AA)



IP65



Auto Power Off

- Washable (Dust & Waterproof, IP65)
- Small-Footprint
- High Resolution (1/3000)
- Portable (6D Type Batteries, Batteries not include)
- 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	174x137mm
HL-3000LWP	3000g	1g	

HT Series

**Compact
Scales**



External Calibration



LCD Display



Auto Power Off



Normal Battery

- Four 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-300	HT-500	HT-3000	HT-5000
Weighing capacity	310g	510g	3100g	5100g
Minimum weighing value	0.1 g		1g	
Power supply	4 AA batteries or an AC adaptor (optional)			
Pan size	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, lb, oz, and lb-oz
- Battery operation with 4 x D size dry batteries
- Simple and easy to change the batteries
- Optional AC adapter
- 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
Capacity x Resolution	g	1000g x 0.5g	2000g x 1g	5000g x 2g	12kg x 0.005kg
	lb	2.2lb x 0.001lb	4.4lb x 0.002lb	11lb x 0.005lb	26lb x 0.01lb
	oz	35oz x 0.02oz	70oz x 0.05oz	176oz x 0.1oz	423oz x 0.2oz
	lb-oz	2.2oz x 0.1oz	4.4oz x 0.1oz	11oz x 0.1oz	26oz x 1oz
Power	4 x R20P/LR20/"D" size batteries or AC adapter				
Battery life	Approx. 800 hours with alkaline cells at 20°C/68°F				
Pan size	230(W) x 190 (D)mm / 9.05 (W) x 7.48 (D) inches				

HJ-150 Series

Compact Scale



- 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	60x64mm

HL-i Series

Compact Scales



Nin★JA

- Nin-JA – New Innovative Novel Japanese Apparatus
- High weighing resolution of 1/2000
- Large LCD display
- Calibration function
- Tare function
- Auto Power OFF function
- Low battery indication function
- Multi weighing units
- Batteries included

Model	Capacity	Resolution	Pan Size
HL-200i	200g	0.1g	Ø130mm
HL-2000i	2000g	1g	



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