Industrial
Scales & Balances

Bench Scales ▪ Compact Scales ▪ Counting Scales ▪ Indicators

www.andweighing.com

A&D Weighing
...Clearly a Better Value

A&D WEIGHING

Contents

Waterproof FX-iWP / FZ-iWP

FX-i / FZ-i Series of washdown precision balances use the same A&D advanced ingress protection technology applied to A&D industrial scales. With an IP65 rating for dust and water protection, these precision balances use A&D's Super Hybrid Sensor technology to combine ultra-fast stabilization, precision and waterproof protection in a compact size. Weighing modes include parts counting, % weighing, dynamic weighing, statistics and comparator function. Weighs in g, oz, lb, lb-oz, kg, custom and 5 other units.

- IP65 rated washdown protection
- Bright Vacuum Fluorescent Display for easy viewing from any angle
- Standard RS-232C bi-directional serial port
- GLP/GMP/GCP/ISO Compliant
- Available in 12 models with readability from 0.001 g to 0.01 g
- Internal calibration models available
- Optional rechargeable battery, USB and Ethernet interfaces

Internal Calibration models in blue in table below

Capacity (g)	Resolution (g)	Model	Pan Size
120	0.001	FZ-120iWP	Ø5.1 in.
120	0.001	FX-120iWP	Ø5.1 in.
220	0.001	FZ-200iWP	Ø5.1 in.
220	0.001	FX-200iWP	Ø5.1 in.
320	0.001	FZ-300iWP	Ø5.1 in.
320	0.001	FX-300iWP	Ø5.1 in.
1220	0.01	FZ-1200iWP	Ø5.9 in.
1220	0.01	FX-1200iWP	Ø5.9 in.
2200	0.01	FZ-2000iWP	Ø5.9 in.
2200	0.01	FX-2000iWP	Ø5.9 in.
3200	0.01	FZ-3000iWP	Ø5.9 in.
3200	0.01	FX-3000iWP	Ø5.9 in.

Overview

On the following pages you will find an overview of the industrial weighing scales and precision industrial balances from A&D Weighing.

In each category, products with different features range from basic to sophisticated capabilities to match most any application, need and budget.

About A&D Weighing

A&D is a global leader in advanced measurement instruments. A&D Weighing serves the Americas from our Silicon Valley headquarters in San Jose, Calif. We are a trusted name in many markets including:

- Industrial Production & OEM
- Laboratory
- Food Processing

Precision Industrial Balances

GX-K/GF-K Series

The GX-K and GF-K Series offer the precision and accuracy of a balance with the weighing capacity of a scale. Used across North America to weigh just about everything, from bulk chemicals to the quality of road-building materials. The GX-K Series has internal calibration as standard.

- **IP65 rated, all-metal body, stainless steel pan**
- **Read display at any angle**
- **12 units, comparator, %, counting functions**
- **Time & date stamp built-in**
- **5 year warranty**

5 YEAR A&D Weighing WARRANTY | RS-232C Interface | Underhook | Software | GLP Compliant

Capacity (kg)	Resolution (g)	Model	Pan Size
2 / 8	0.01 / 0.1	GX-8K2	10.62" x 8.26"
2 / 8	0.01 / 0.1	GF-8K2	10.62" x 8.26"
8	0.01	GX-8K	10.62" x 8.26"
8	0.01	GF-8K	10.62" x 8.26"
10.1	0.01	GX-10K	10.62" x 8.26"
10.1	0.01	GF-10K	10.62" x 8.26"
12	0.1	GX-12K	10.62" x 8.26"
12	0.1	GF-12K	10.62" x 8.26"
12	0.1	GP-12K	15.1" x 13.5"
20	0.1	GX-20K	10.62" x 8.26"
20	0.1	GF-20K	10.62" x 8.26"
21	0.1	GP-20K	15.1" x 13.5"
30	0.1	GX-30K	10.62" x 8.26"
30	0.1	GF-30K	10.62" x 8.26"

GP Series

For higher capacity weighing with the choice of an adjustable swing arm display (GP) or mountable detached display (GP-S). SmartRange feature for improved precision, regardless of tare container weight.

- **IP65 rated, all-metal body, stainless steel pan**
- **Read display at any angle**
- **12 units, comparator, %, counting functions**
- **Time & date stamp built-in**
- **User calibration function**
- **5 year warranty**

5 YEAR A&D Weighing WARRANTY | RS-232C Interface | Underhook | Internal Calibration | Software | GLP Compliant

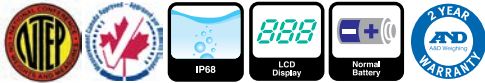| Capacity (kg)	Resolution (g)	Model	Pan Size
31	0.1	GP-30K	15.1" x 13.5"
31	0.1	GP-30KS	15.1" x 13.5"
6 / 30	0.1 / 1	GX-32K	10.62" x 8.26"
6 / 30	0.1 / 1	GF-32K	10.62" x 8.26"
6 / 31	0.1 / 1	GP-32K	15.1" x 13.5"
6 / 31	0.1 / 1	GP-32KS	15.1" x 13.5"
41	0.5	GP-40K	15.1" x 13.5"
61	1	GP-60K	15.1" x 13.5"
61	1	GP-60KS	15.1" x 13.5"
61	0.1	GP-61K	15.1" x 13.5"
61	0.1	GP-61KS	15.1" x 13.5"
100	1	GP-100K	15.1" x 13.5"
101	1	GP-100KS	15.1" x 13.5"
61 / 101	1 / 10	GP-102K	15.1" x 13.5"

Bench Scales

Standard

SE Series

The SE Series are semi-wash down bench scales that feature a completely sealed, IP rated indicator. With mild steel base / column construction and stainless steel weighing pan, this scale is ideal for tough environments. Efficient electronics allow the SE to operate for 4,500 hours on 6 D-cell batteries. Easily switch between lb, kg, oz units or parts counting mode.

- •NTEP Certified and Measurement Canada approved
- •Fast one-second stabilization time
- •IP68 rated dust and waterproof protection
- •Supersized LCD readout with 39 mm high characters
- •Long life battery operation – over 500 8-hour shifts on 6 D-cells
- •Extended battery life eliminates the need for AC power
- •Waterproof and corrosion resistant load cell
- •RS-232C interface with comparator relay output option
- •Quick USB interface option
- •2-year warranty

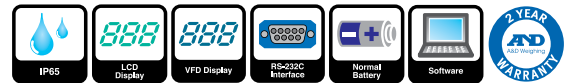| Capacity (lb / kg)		Resolution (lb)	Pan Size	Model
66	30	0.01	11.8" x 15"	SE-30KAM
130	60	0.02	11.8" x 15"	SE-60KAM
130	60	0.02	15.4" x 20.9"	SE-60KAL
330	150	0.05	11.8" x 15"	SE-150KAM
330	150	0.05	15.4" x 20.9"	SE-150KAL

Note: NTEP models in red.

Standard

HW-G Series

HW-G High Resolution Bench Scale Series combine the excellence of the rock-solid FG-K and the enhanced features of the HV-G Series. All models feature single range resolution through the entire capacity range. Weighing modes include parts counting and HI/OK/LOW comparator function for checkweighing. Enhanced weighing modes include Set-point Control for simple batching, percent weighing and accumulation function for totaling weigh data. Weighs in lb, kg, oz.

- •High resolution readability without NTEP certification
- •IP65 scale base with Gore-Tex® membrane protects load cell from water and dust
- •Column-mounted indicator display available in LCD (GL model) or VFD (GV model) includes adjustable mount
- •Built-in printer option available
- •Standard RS-232C bi-directional communication port
- •AC or battery operation with 6 D-dry cell batteries (600 hours)
- •Includes WinCT software

Capacity (lb / kg)		Resolution (lb)	Pan Size	Model
20	10	0.002	9.8" x 9.8"	HW-10KGL
20	10	0.002	9.8" x 9.8"	HW-10KGV
150	60	0.01	13" x 16.7	HW-60KGL
150	60	0.01	13" x 16.7	HW-60KGV
200	100	0.02	15.4" x 20.9"	HW-100KGL
200	100	0.02	15.4" x 20.9"	HW-100KGV
500	220	0.05	15.4" x 20.9"	HW-200KGL
500	220	0.05	15.4" x 20.9"	HW-200KGV

- Dry Use

Standard

HV-G Series

HV-G Bench Scale Series builds on the excellence of the rock-solid FG-K platforms. Enhanced features include "Triple Range Resolution" that automatically changes display readability in each of 3 capacity ranges to optimize both results and cost. Additional weighing modes include parts counting and HI/OK/LOW comparator function for checkweighing. Enhanced weighing modes include Set-point Control for simple batching, percent weighing and accumulation function for totaling weigh data. Weighs in lb, kg, oz.

- •NTEP Certified and Measurement Canada approved
- •IP65 scale base with Gore-Tex® membrane protects load cell from water and dust
- •Column-mounted Indicator display available in LCD (GL model) or VFD (GV model) with adjustable mount
- •Built-in printer option available
- •Standard RS-232C bi-directional communication port
- •AC or battery operation with 6 D-dry cell batteries (600 hours)
- •Includes WinCT software

Basic

FG-K Series

FG-K Series combines fast response time and rock-solid durability in an easy to use package. Three user selectable display readings let you choose the resolution needed for the job. Additional weighing modes include parts counting and HI/OK/LOW comparator function for checkweighing. Weighs in lb, kg, oz.

- •NTEP Certified and Measurement Canada approved
- •Fast one-second stabilization time
- •Selectable environmental filter for most weighing conditions
- •Rock-solid frame construction with stainless steel weigh pan
- •AC or battery operation with 4 C-dry cell batteries (150 hours)
- •Column or platform mounted LCD Indicator display
- •Available without NTEP Certification for higher precision

Capacity (lb)	Resolution (lb)	Pan Size	Model
6 / 15 / 30	0.002 / 0.005 / 0.01	9.8" x 9.8"	HV-15KGL
6 / 15 / 30	0.002 / 0.005 / 0.01	9.8" x 9.8"	HV-15KGV
30 / 60 / 150	0.01 / 0.02 / 0.05	13" x 16.7	HV-60KGL
30 / 60 / 150	0.01 / 0.02 / 0.05	13" x 16.7	HV-60KGV
150 / 300 / 500	0.05 / 0.1 / 0.2	15.4" x 20.9"	HV-200KGL
150 / 300 / 500	0.05 / 0.1 / 0.2	15.4" x 20.9"	HV-200KGV
(kg)	**(kg)**		
3 / 6 / 15	0.001 / 0.002 / 0.005	9.8" x 9.8"	HV-15KGL
3 / 6 / 15	0.001 / 0.002 / 0.005	9.8" x 9.8"	HV-15KGV
15 / 30 / 60	0.005 / 0.01 / 0.02	13" x 16.7	HV-60KGL
15 / 30 / 60	0.005 / 0.01 / 0.02	13" x 16.7	HV-60KGV
60 / 150 / 220	0.02 / 0.05 / 0.1	15.4" x 20.9"	HV-200KGL
60 / 150 / 220	0.02 / 0.05 / 0.1	15.4" x 20.9"	HV-200KGV

Note: NTEP models in red.

Capacity (lb / kg)		Resolution (lb)	Pan Size	Model
60	30	0.005	11.8" x 15"	FG-30KBM[1]
60	30	0.02	11.8" x 15"	FG-30KBMN[1]
60	30	0.005	11.8" x 15"	FG-30KAM
60	30	0.02	11.8" x 15"	FG-30KAMN
150	60	0.01	11.8" x 15"	FG-60KBM[1]
150	60	0.05	11.8" x 15"	FG-60KBMN[1]
150	60	0.01	11.8" x 15"	FG-60KAM
150	60	0.05	11.8" x 15"	FG-60KAMN
150	60	0.01	15.4" x 20.9"	FG-60KAL
150	60	0.05	15.4" x 20.9"	FG-60KALN
300	150	0.02	11.8" X 15"	FG-150KBM[1]
300	150	0.1	11.8" X 15"	FG-150KBMN[1]
300	150	0.02	11.8" X 15"	FG-150KAM
300	150	0.1	11.8" X 15"	FG-150KAMN
300	150	0.02	15.4" x 20.9"	FG-150KAL
300	150	0.1	15.4" x 20.9"	FG-150KALN
400	200	0.02	15.4" x 20.9"	FG-200KAL
400	200	0.1	15.4" x 20.9"	FG-200KALN

[1] No column   Note: NTEP models in red.

Bench Scales

Advanced

SW Series

SW Super Washdown Bench Scales are designed to withstand the most demanding process conditions and high pressure, high temperature cleaning. With a superior IP69K rating (1450 PSI, 175°F), stainless steel frame, load cell and weigh pan, SW bench scales are ideal for food processing applications and extremely damp locations where cleanliness and sanitation are critical. Weighing modes include parts counting and comparator function for checkweighing applications. Weighs in lb, kg, oz, g, lb-oz with easily switchable units.

- NTEP Certified and Measurement Canada approved
- IP69K rated for the ultimate in dust, water and condensation protection
- Bright high visibility multicolored LED display with comparator display built-in
- Adjustable sensitivity keys allow light touch and are puncture resistant
- Stainless steel column that mounts on short or long side of base
- Optional rechargeable battery, wall/desk mount bracket and relay outputs

Capacity (lb / kg)		Resolution (lb)	Pan Size	Model
13	6	0.001	9.8" x 9.8"	SW-6KS
33	15	0.002	9.8" x 9.8"	SW-15KS
33	15	0.002	11.8" x 15.0"	SW-15KM
66	30	0.005	11.8" x 15.0"	SW-30KM
130	60	0.01	11.8" x 15.0"	SW-60KM
130	60	0.01	15.4" x 20.9"	SW-60KL
330	150	0.02	11.8" x 15.0"	SW-150KM
330	150	0.02	15.4" x 20.9"	SW-150KL

Note: NTEP models in red.

Standard Plus

SC Series

SC Series of Washdown Bench Scales feature an IP68 rated all stainless steel base, column and weighing pan. The fully sealed waterproof molded indicator provides extended battery life to eliminate the need for AC power during operation in wet or harsh environments. State of the art electronics allow the SC to operate for 4,500 continuous hours on 6 D-cell batteries. Weighing modes include parts counting. Weighs in lb, kg, oz with easy switchable units.

- NTEP Certified and Measurement Canada approved
- Supersized LCD readout with 39 mm characters
- Long life battery operation – over 500, 8 hour shifts on 6 D-cells eliminates the need for AC power
- Waterproof and corrosion resistant load cell
- Optional USB, RS-232C, rechargeable battery, wall/desk mount bracket and relay outputs

Capacity (lb / kg)		Resolution (lb)	Pan Size	Model
66	30	0.01	11.8" x 15"	SC-30KAM
130	60	0.02	11.8" x 15"	SC-60KAM
130	60	0.02	15.4" x 20.9"	SC-60KAL
330	150	0.05	11.8" x 15"	SC-150KAM
330	150	0.05	15.4" x 20.9"	SC-150KAL

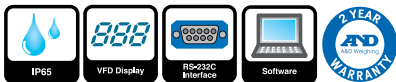*Note: NTEP models in red.*

- Washdown

Standard

HW-WP Series

HW-WP TITAN High Resolution washdown bench scales are ideal for applications in packaging, batching and formulation. All models feature single range resolution through the entire capacity range. Large Vacuum Florescent Display (VFD) is housed in a sealed stainless housing with easy-to-navigate function keys. Weighing modes include parts counting and HI/OK/LOW comparator function for checkweighing. Enhanced weighing modes include Set-point Control for simple batching, percent weighing and accumulation function for totaling weigh data. AC operation. Weighs in lb, kg, oz.

- IP65 rated washdown stainless steel construction
- VFD Indicator display is ideal for low light environments
- Column-mounted adjustable Indicator detaches for bench/wall mounting
- Standard RS-232C Bi-directional communication port
- Optional wall/desk mount bracket, display extension cable and relay outputs

Capacity (lb / kg)		Resolution (lb / kg)		Pan Size	Model
20	10	0.002	0.001	9.8" x 9.8"	HW-10KWP
150	60	0.01	0.005	13" x 16.7	HW-60KWP
200	100	0.02	0.01	15.4" x 20.9"	HW-100KWP
500	220	0.05	0.02	15.4" x 20.9"	HW-200KWP

Basic

HV-WP Series

HV-WP scales are identical to the HW-WP (to the left) but include the "Triple Range Resolution" function which matches the resolution to each of the three internal capacities. The result is a legal-for-trade scale.

- NTEP Certified and Measurement Canada approved
- IP65 rated washdown construction with stainless steel pan
- VFD Indicator is ideal for low light environments
- Column mounted adjustable Indicator detaches for bench/wall mounting
- Standard RS-232C Bi-directional communication port
- Optional wall/desk mount bracket, display extension cable and relay outputs

Capacity (lb)	Resolution (lb)	Pan Size	Model
6 / 15 / 30	0.002 / 0.005 / 0.01	9.8" x 9.8"	HV-15KWP
30 / 60 / 150	0.01 / 0.02 / 0.05	13" x 16.7	HV-60KWP
150 / 300 / 500	0.05 / 0.1 / 0.2	15.4" x 20.9"	HV-200KWP
(kg)	(kg)		
3 / 6 / 15	0.001 / 0.002 / 0.05	9.8" x 9.8"	HV-15KWP
15 / 30 / 60	0.005 / 0.01 / 0.02	13" x 16.7	HV-60KWP
60 / 150 / 220	0.02 / 0.05 / 0.1	15.4" x 20.9"	HV-200KWP

Note: NTEP models in red.

Compact Bench Scales - Dry Use

SK / SK-Z Series

SK Series compact bench scales are ideal for general weighing in most every industry and ideal for food applications. The rugged high impact molded housing is splash resistant and rust proof. NTEP certified, Measurement Canada Approved and NSF listed. SK-Z models add lb-oz and are non-NTEP certified.
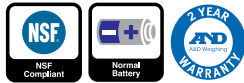
- Temperature compensated: use near ovens
- Removable stainless steel weighing pan
- Full scale pushbutton zero/tare
- Easy one touch full digital calibration
- Battery or optional AC adapter
- Low battery indicator & Auto Power-Off

SJ Series

Ideal for food portion control and general-purpose weighing. Durable molded plastic body. NSF listed with large, removable stainless steel pan make the SJ easy to keep clean for HACCP applications. Weighs in g, oz, lb-oz, lb.

- Fast: measure in 1 second
- Portable: 4xD cell with battery level indicator
- Optional AC adapter
- Auto Power-Off
- Easy to read 1" LCD readout

HL-iVP Series

Culinary students, chefs and homemakers love the convenience of the HL-iVP Value Pack. Includes scale, stainless steel pan, AC power adapter and clear carry case for the HL-200i or HL-2000i models.

- 7 oz and 4 lb models
- Shock-proof design
- Tough ABS housing
- Stable indicator
- Includes 4xAA batteries and AC adapter

Capacity		Resolution	Pan Size (Inches)	Model	Capacity		Resolution	Pan Size (Inches)	Model
200 g		0.1 g	Ø 5.1	HL-200iVP	5000 g		1 g	9.1 x 7.5	SK-5001*1
2.2 lb	1000 g	0.001 lb	9.1 x 7.5	SK-1000	11 lb	5000 g	0.002 lb	9 x 7.5	SJ-5001HS
2.2 lb	1000 g	0.001 lb	9 x 7.5	SJ-1000HS	22 lb	10 kg	0.01 lb	9.1 x 7.5	SK-10K
4.4 lb	2000 g	0.002 lb	9.1 x 7.5	SK-2000	26 lb	12 kg	0.01 lb	9 x 7.5	SJ-12KHS
4.4 lb	2000 g	0.002 lb	9.1 x 7.5	SK-2000Z	44 lb	20 kg	0.02 lb	9.1 x 7.5	SK-20K
4.4 lb	2000 g	0.002 lb	9 x 7.5	SJ-2000HS	44 lb	20 kg	0.02 lb	9.1 x 7.5	SK-20KZ
2000 g		1 g	Ø 5.1	HL-2000iVP	44 lb	20 kg	0.02 lb	9 x 7.5	SJ-20KHS
11 lb	5000 g	0.005 lb	9.1 x 7.5	SK-5000	66 lb	30 kg	0.05 lb	9.1 x 7.5	SK-30K
11 lb	5000 g	0.005 lb	9.1 x 7.5	SK-5000Z	66 lb	30 kg	0.05 lb	9 x 7.5	SJ-30KHS
11 lb	5000 g	0.005 lb	9 x 7.5	SJ-5000HS	Note: NTEP models in red. *1 Grams only				

Compact Bench Scales - Washdown

SK-WP Series

SK-WP Series scales are ideal for food preparation and food service. With an IP65 rating, stainless steel construction, a large removable pan, these scales are easy to clean. They are legal-for-trade in US/Canada, NSF listed and meet HACCP requirements. 1200 hour battery life (6 D-cell batteries) eliminates the need for optional AC power in many applications. Units of g, lb for all models, SK-5000WP adds oz.

- Legal-for-trade in US & Canada
- Fast response, less than 1 second
- Temperature compensated for use near ovens or in refrigerated areas
- Battery Indicator with Auto Power-Off
- Easy to read 1" LCD display
- lb-oz unit included on SK-WPZ models

SJ-WP Series

A&D's most robust compact washdown scale is IP67 rated and submersible for thorough cleaning. The innovative *external* load-cell design completely isolates the electronics for fast stabilization. The advanced bright Red-Yellow-Green traffic light checkweighing feature is perfect for portioning in agriculture, seafood and for industrial filling applications. Units of measure: g, oz, lb, kg, lb-oz, and more.

- High resolution 0.005 oz
- Ultra fast ½ second stabilization time
- Crisp 1" backlit LCD readout
- Battery level indicator with Auto Power-Off
- Up to 5000 hours of operation on a single battery set

HL-WP Series

Compact and portable IP-67 washdown scales for portion control in restaurants, food processing and for use in harsh industrial environments. Stainless steel body, including the removable pan, can be fully submerged in water for cleaning. The HL-WP Series are NSF listed and HACCP compliant and trade-legal. Uses 6 x AA batteries or AC adapter (optional). Units of Measure: g, oz, lb-oz, lb.

- NTEP Legal-For-Trade models (see table)
- Easy to read clear LCD readout
- Battery level indicator with Auto Power-Off
- Higher capacity model feature large pan size

Capacity		Resolution	Pan Size (Inches)	Model
10.5 oz	300 g	0.01 oz	5 x 5	HL-300WP
2.2 lb	1000 g	0.001 lb	5 x 5	HL-1000WP
2.2 lb	1000 g	0.001 lb	9.1 x 7.5	SK-1000WP
4.4 lb	2000 g	0.002 lb	9.1 x 7.5	SK-2000WP
4.4 lb	2000 g	0.002 lb	9.1 x 7.5	SK-2000WPZ
6.6 lb	3000 g	0.0002 lb	9.1 x 7.5	SJ-3000WP
6.6 lb	3000 g	0.002 lb	5 x 5	HL-3000WP
6.6 lb	3000 g	0.002 lb	5.4 x 6.8	HL-3000LWP
6.6 lb	3000 g	0.002 lb	5 x 5	HL-3000WPN
6.6 lb	3000 g	0.002 lb	5.4 x 6.8	HL-3000LWPN

Capacity		Resolution	Pan Size (Inches)	Model
11 lb	5000 g	0.005 lb	9.1 x 7.5	SK-5000WP
11 lb	5000 g	0.005 lb	9.1 x 7.5	SK-5000WPZ
	5000 g	1 g	9.1 x 7.5	SK-5001WP*1
13 lb	6000 g	0.0005 lb	9.1 x 7.5	SJ-6000WP
22 lb	10 kg	0.01 lb	9.1 x 7.5	SK-10KWP
33 lb	15 kg	0.001 lb	9.1 x 7.5	SJ-15KWP
44 lb	20 kg	0.02 lb	9.1 x 7.5	SK-20KWP
44 lb	20 kg	0.02 lb	9.1 x 7.5	SK-20KWPZ
66 lb	30 kg	0.002 lb	9.1 x 7.5	SJ-30KWP

*Note: NTEP models in red. *1 Grams only*

Counting Scales

Advanced

FC-i/Si Series

FC-i Series of high-resolution counting scales offer simple and easy operation. A&D's exclusive **Automatic Count Accuracy Improvement** combines the two most critical performance requirements of counting scales: count accuracy and operational efficiency to correct errors caused by variation in unit weights. Bright VFD display simultaneously shows count, weight, comparator results, unit weight, ID #, and item code with up to 12 alphanumeric characters. LED prompting Navigation System for intuitive operator use virtually eliminates operator training time.

• Internal resolution up to 1/5,000,000
• 500 alphanumeric memory
• Rugged aluminum die-cast housing with splash-proof display
• Standard RS-232C with optional 2nd and 3rd ports
• Rechargeable battery
• Remote scale base option

Standard

HD Series

HD Series of high capacity counting scales offer high internal resolution with capacity to 120 lbs. A&D's exclusive **Automatic Count Accuracy Improvement** corrects errors caused by variation in unit weights. Standard models feature simple 2-button operation, single display without keypad for ultra simple use. The enhanced models feature a large detachable 3 window LCD display/keyboard. Also included is a comparator function mode for packaging applications.

• Internal resolution with up to 1/120,000
• Operates on AC power or 6 C-cell batteries
• Memory plus function allows for accumulating count data
• Rugged aluminum die-cast housing with splash resistant display
• Options RS-232C and rechargeable battery

Basic

HC-i Series

HC-i Series counting scales offer simple and easy operation. A&D's exclusive **Automatic Count Accuracy Improvement** automatically corrects errors caused by variation in unit weights. The **Audible Weighing Assist** function alerts you when approaching the target quantity. Unique accumulation function allows for storing total piece count in memory and works in automatic or manual mode.

• High internal resolution: up to 1/750,000
• Up to 99 unit weight ID memory function for easy data retrieval
• Large detachable 3 window LCD display/keyboard
• Optional RS-232C and rechargeable battery

Capacity		Resolution	Pan Size (Inches)	Model	Capacity		Resolution	Pan Size (Inches)	Model
1 lb	500 g	0.0001 lb	8 x 6	FC-500i	30 lb	12 kg	0.005 lb	11.8 x 15	HD-12KA
1 lb	500 g	0.00005 lb	5 x 5	FC-500Si	30 lb	12 kg	0.005 lb	11.8 x 15	HD-12KB
2 lb	1 kg	0.0002 lb	8 x 6	FC-1000i	50 lb	20 kg	0.005 lb	11.8 x 11	FC-20Ki
5 lb	2 kg	0.0005 lb	11.8 x 11	FC-2000i	60 lb	30 kg	0.01 lb	11.8 x 8.3	HC-30Ki
6 lb	3 kg	0.001 lb	11.8 x 8.3	HC-3Ki	60 lb	30 kg	0.01 lb	11.8 x 15	HD-30KA
10 lb	5 kg	0.001 lb	11.8 x 11	FC-5000i	60 lb	30 kg	0.01 lb	11.8 x 15	HD-30KB
10 lb	5 kg	0.0005 lb	6.5 x 6.5	FC-5000Si	100 lb	50 kg	0.01 lb	11.8 x 11	FC-50Ki
15 lb	6 kg	0.002 lb	11.8 x 8.3	HC-6Ki	120 lb	60 kg	0.02 lb	11.8 x 15	HD-60KA
20 lb	10 kg	0.002 lb	11.8 x 11	FC-10Ki	120 lb	60 kg	0.02 lb	11.8 x 15	HD-60KB
30 lb	15 kg	0.005 lb	11.8 x 8.3	HC-15Ki					

Checkweighing & Shipping Scales

FS-i Series

A&D's FS-i Series of Checkweighing Scales feature large, bright comparator lights, stainless steel construction, and three user-selectable resolution levels. FS-i Checkweighers satisfy both NSF and HACCP requirements. These durable scales are ideal for food processing and checkweighing applications. NTEP Certified and Measurement Canada approved models.

- **IP65 rated dust and waterproof protection**
- **100 item data memory**
- **AC operation or optional rechargeable battery**
- **Higher resolution non-NTEP units available**
- **2 Year Warranty**

JL / JM Series

This series of compact, lightweight shipping and receiving scales are ideal for warehouse, home and small business needs and general weighing applications. The bi-directional RS-232C communication port makes uploading data easy and will integrate to UPS and most other shipping systems.

- **AC power or battery operation**
- **4 digit, 7 segment LCD display**
- **12" x 12" weighing platter size**
- **2 Year Warranty**

Capacity (lb / kg)		Resolution (lb / kg)		Pan Size	Model
15	6 kg	0.001	0.0005	9.8" x 9.8"	FS-6Ki
15	6 kg	0.005	0.0002	9.8" x 9.8"	FS-6KiN
35	15 kg	0.002	0.001	9.8" x 9.8"	FS-15Ki
35	15 kg	0.01	0.005	9.8" x 9.8"	FS-15KiN
70	30 kg	0.005	0.002	15" x 11.8"	FS-30Ki
70	30 kg	0.02	0.01	15" x 11.8"	FS-30KiN

Note: NTEP models in red.

Capacity (lb / kg)		Resolution (lb / kg)		Pan Size	Model
150	65	0.02	0.1	12" x 12"	JM-150
400	180	0.5	0.2	12" x 12"	JL-400*1

*1 Note: The JL is the same as the JM (pictured) but without on/off switch. It powers on automatically when plugged in.
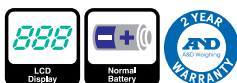
Compact Scales

HL-i Series

The HL-i "Ninja" Series is at ideal for use in the office, warehouse, kitchen, or laboratory. Tough ABS construction assures long service life and over a wide temperature range. Easily portable at about 5 x 8 inches. Weigh in grams, ounces or carats. The HL-2000i also weighs in lb-oz.

The A&D Value Pack adds to the HL-200iVP and HL-2000iVP: 1) a stainless steel pan cover, 2) AC power adaptor and 3) a case to carry it all.

• LCD display
• Stable indicator
• Auto Power-Off function
• Uses 4 x AA batteries, included
• AC adaptor option
• 2 year warranty

HT Series

Ideal for schools, laboratories and weighing your jewelry, HT-120 brings optimum weighing performance at a value price. It has features usually found in scales costing much more such as the stainless steel pan, backlit display and multiple units of measure: g, oz, ozt, ct, mom, dwt, grain, tola, tael, and Newton.

HT models 300 g and up, have 7 units of measure, including: g, oz, lb-oz., ozt and N. And all HT Series come with a clear carry-case for easy storage and safe transport.

• Stable, Net and Zero indicators
• Clear LCD display
• AC adaptor option
• Uses 4 x AA batteries, included
• Battery level indicator (HT-120)
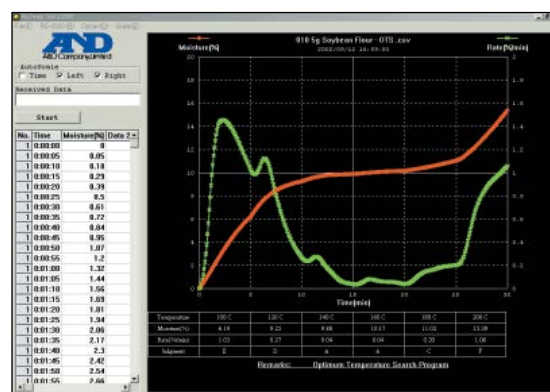• Security slot for Kensington™ lock
• 2 year warranty

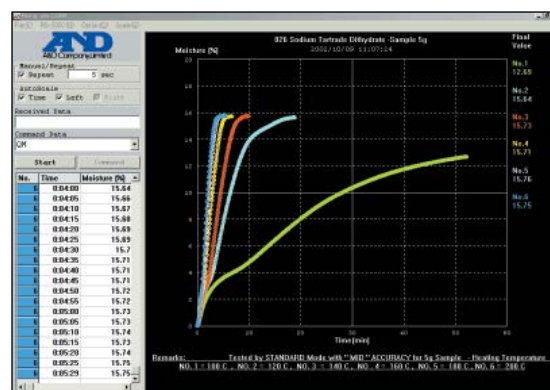| Capacity	Resolution	Pan Size (Inches)	Model	Capacity	Resolution	Pan Size (Inches)	Model
120 g	0.01 g	Ø 2.75	HT-120	2000 g	1 g	Ø 5.1	HL-2000i
200 g	0.1 g	Ø 5.1	HL-200i	2000 g	1 g	Ø 5.1	HL-2000iVP
200 g	0.1 g	Ø 5.1	HL-200iVP	3100 g	1 g	5.20 x 5.12	HT-3000
310 g	0.1 g	5.20 x 5.12	HT-300	5100 g	1 g	5.20 x 5.12	HT-5000
510 g	0.1 g	5.20 x 5.12	HT-500				

Moisture Analyzers
MS / MX / MF / ML Series

WinCT-Moisture software offers real-time graphical data display and determines the optimum heating temperature for samples. Included with MS/MX models.

RsTemp function tracks % moisture (red) and drying rate (green) vs. time. Here coffee is measured.

- **Fast, uniform heating with halogen lamp up to 200ºC in 4 heating modes:**

  - **Standard**
  - **Quick**
  - **Step**
  - **Ramp**

- **5 measurement programs:**

  - **Standard**
  - **Quick**
  - **Automatic**
  - **Timer**
  - **Manual**

- **Standard RS-232C**

- **GMP / GCP / ISO / Date & Time**

See the Moisture Video at: www.andweighing.com

RsFig measuring the Sodium Tartrate standard provided with all analyzers. Graph demonstrates excellent repeatability as moisture values converge when tested at different temperatures.

Model	Max Sample Capacity	Resolution	Moisture Resolution	Accuracy	Drying Temperature
MS-70	71g	0.0001g	0.001%	0.01%	30 - 200°C
MX-50	51g	0.001g	0.01%	0.02%	50 - 200°C
MF-50	51g	0.002g	0.05%	0.05%	50 - 200°C
ML-50	51g	0.005g	0.1%	0.1%	50 - 200°C

Note: WinCT-Moisture standard for MS, MX. Option for MF.
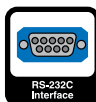
Weighing Modules

AD-4212A/B Series

Enable high resolution weighing in automated systems or bring it into the tight confines of glove boxes, fumes hoods and vacuum chambers with A&D Weighing Modules. These models come with a control unit to operate the weighing cell and display results.

- **Fast stabilization: 1.1 sec. at 0.1 mg (A)**
- **Protection mechanism against vertical and transverse overloading (A)**

- **Minimum weighing value from 1 μg (B)**
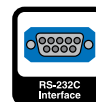- **4.0 sec. stablization for 0.01 mg resolution (B)**

- **2 m cable standard**
- **RS-232C Standard**
- **5 year warranty**

AD-4212C Series

The AD-4212C Series of eletromagnetic digital load cells offer direct connection to a PC or PLC with standard serial. CC link and BCD available via external display controller. Transmit measurement data up to 50 times per second. Total unit width is 59 mm. Weighing pan is 50mm wide or make your own custom fixture for your application. Leveling feet can be replaced with screws to secure to a base or fixture.

- **Sensor IP65 rated**
- **RS-232C Standard**
- **WinCT AD-4212C**
- **5 year warranty**

Capacity	Resolution	Pan Size (mm)	Model	Capacity	Resolution	Pan Size (mm)	Model
21 g	0.001 mg	Ø 34	AD-4212B-23	51 / 320 g	0.0001 g	50 x 50	AD-4212C-301
31 / 110 g	0.01 / 0.1 mg	Ø 34	AD-4212B-101	610 g	0.001 g	70 x 70	AD-4212A-600
110 g	0.01 mg	Ø 34	AD-4212B-102	620 g	0.001 g	50 x 50	AD-4212C-600
110 g	0.1 mg	50 x 50	AD-4212A-100	1100 g	0.001 g	70 x 70	AD-4212A-1000
210 g	0.1 mg	50 x 50	AD-4212B-201	510 / 3200 g	0.001 g	50 x 50	AD-4212C-3100
210 g	0.001 g	50 x 50	AD-4212A-200	3200 g	0.01 g	50 x 50	AD-4212C-3000
310 g	0.1 mg	50 x 50	AD-4212B-301	6200 g	0.01 g	50 x 50	AD-4212C-6000
320 g	1 mg	50 x 50	AD-4212C-300				

Weighing Indicators

AD-4402
Batch Weighing
- High Speed Sampling at 100 times/sec
- Up to 1 million counts of internal resolution
- 5 line display for weight, status and set-points
- Recipe & Sequencing Memories

AD-4401
Batch Weighing
- High Speed Sampling at 100 times/sec.
- Up to 1 million counts of A/D resolution
- 8 auto-batch/fill/checkweigh modes
- Auto Free Fall Compensation for accuracy
- Front panel protected to IP65

AD-4328
Batch Weighing
- 1/10,000 resolution (20,000 available)
- Accumulative data is stored in memory
- Comparator output to optional relays (Hi/OK/Lo)
- Bright LED display
- Front panel protected to IP65

AD-4407
Washdown
- IP65 with stainless steel housing
- 1/40,000 resolution
- 0-9 keys for tare, set-points and sample count entries
- Standard RS-232C & counting function
- Includes wall/table mount bracket

FS-D Series
Washdown
- IP65 with stainless steel housing
- Ideal for checkweighing/food processing
- 1/15,000 displayed resolution
- 3 color light Hi/Lo/Ok comparator
- Auto tare function

SW-D
Super Washdown
- IP69K high pressure washdown rated
- Ultimate condensation protection
- Capacitive keys
- Multicolored LED Display w/5 comparator lights
- Rechargeable battery option

AD-4410
General Weighing
- DSP technology to eliminate effects of noise & vibration from results
- RS-232C standard
- USB option
- SCF-Statistical Calculation Function
- Comparator Function

AD-4405
General Weighing
- Counting and accumulation functions
- 1/40,000 displayed resolution
- 0-9 keys for tare, set-points and sample count entries
- Standard RS-232C
- Built-in printer option

AD-4406
General Weighing
- Accumulation function
- 1/40,000 displayed resolution
- AC or battery operation
- Standard RS-232C
- Includes table mount bracket

Model	NTEP	Measurement Canada	NSF	2 Year Warranty	1 Year Warranty
AD-4402	-	-	-	✓	-
AD-4401	-	-	-	✓	-
AD-4328	✓	✓	-	✓	-
AD-4407	✓	✓	-	✓	-
FS-D	-	-	✓	✓	-
SW-D	✓	✓	✓	-	✓
AD-4410	-	-	-	✓	-
AD-4405	✓	✓	-	✓	-
AD-4406	✓	✓	-	✓	-

Looking for more?

Visit **www.andweighing.com** to learn more about the products listed here, including videos.

You'll also find more weighing solutions such as:

- Analytical and Precision Balances
- Pipette Calibration
- Mass Comparison

with resolutions as low as 0.001 mg for Laboratory and Quality Assurance applications.

Approvals & Certifications

Legal-for-Trade (NTEP / Measurement Canada) versions of the scales in this catalog are listed in red typeface. Other trade-legal balances, including FX-i Precision Balances are also available. Visit our website to see why both buyers and sellers worldwide put their trust in A&D weighing solutions for such applications as:

- Pharmacy
- Research & Development
- Forensics
- Customs / Border Protection
- Gems and precious metals

Warranty & Support

All the balances in this catalog are backed by the best warranty in the industry: 5 years. Most scales and indicators are backed with our 2-year warranty.

And all our products are backed by the extensive network of local A&D Weighing distribution partners who can assist you with:

- Post-sales service & support
- On-site setup & calibration

Quality and Corporate Responsibility

A&D adheres to ISO:9001-2008 and all the balances, bench scales, moisture analyzers, and production weighing systems listed in this catalog are designed and manufactured in our own facilities in Japan or South Korea.