A&D WEIGHING

TOPLOADER BALANCES



DOMINIQUE BUTSCHER SAS

FX/Z-i SERIES

FX/Z-iWP SERIES

A&D Weighing

FX/Z-i SERIES

FX-i - External Calibration

A&D's FX-i Series entry level precision balance is a full-featured 0.01g to 1mg resolution balance at a very affordable price. The patented Compact Super Hybrid Sensor is at the heart of this unit and provides fast, one-second weighing response time.

The FX-i also contains a specially designed internal shock absorber that offers protection from the adverse effects of vertical or transverse overloading. Legal-for-trade models (NTEP and Measurement Canada) are also available.



External Calibration



FX-3000i with optional Animal weighing pan FXi-12

Entry Level Models

Choose
Configu

FZ-i - Internal Calibration

For those who desire the performance of the FX-i plus the convenience and assurance of internal calibration, look no further than the FZ-i. Quick adjustment is just a keystroke away. The unique, air actuated internal motor provides quick, one-touch calibration and its fail-safe mechanism resets the weight to its original position upon interruption. High-end features that come at high level of affordability make the FZ-i unique in its class.

Internal Calibration



FZ-300i with optional Breeze Break FXi-11

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Common

Statistical Calculation Function
The statistical values Sum, Maximum, Minimum, Range, Standard Deviation, Number of Data, and Coefficient of Variation can be displayed or output.

ACAI – Automatic Counting Accuracy Improvement
This counting function recalculates the average weight each time a sample is added to eliminate errors caused by variations in unit weight.

Animal Weighing Function
The HOLD function enables freezing of weighing data for animal weighing applications and an ANIMAL indicator appears on the display.

Comparator Function
Easy to compare weighing results by setting HI limit and LO limit to display HI,OK,LO indicator.

Percent Mode Function
A sample can be registered as 100% and the weight of another sample can be compared as a percentage.

Underhook
The underhook allows for measurement of magnetic materials and density measurements in air and water.

Statistical Calculation | Counting Function | Animal Weighing | Comparator Function | Percentage Function | Underhook | Quick USB | Super Hybrid Sensor

FX-iWP Water Proof/Dust Proof External Calibration

A&D has applied its expertise in the design of waterproof scales to develop the world's first IP-65 rated 1 mg resolution balance. It is dust-tight and can even be sprayed with water. Think of it as an "accident-proof" balance suitable for use in environments that can render other balances inoperable.

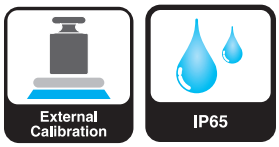




Water Proof RS-232C Cable (optional)



Sealed Pan Support



from 4
rations

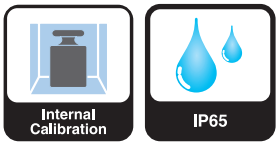
Water/Dust Proof Models

FZ-iWP - Water Proof/Dust Proof with Internal Calibration

For the user that wants it all, the FZ-iWP adds internal calibration to complement the IP-65 rated dustproof and waterproof features. Here is a balance that be used virtually anywhere.



FZ-300iWP with small Breeze Break (standard on 1mg models)



What does "IP65" mean?

The International Protection (IP) Code, as defined by the international standard IEC 60529, specifies the degrees of protection provided by enclosures. The two digits next to IP indicate the levels of protection against solid foreign objects (first digit) and water (second digit). For example, a device rated as IP65 should permit no ingress of dust (level 6) and withstand water jetting from any direction (level 5).

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Features

Standard RS-232C Interface
Incorporates bi-directional communication with a PC, printer or other peripheral devices.

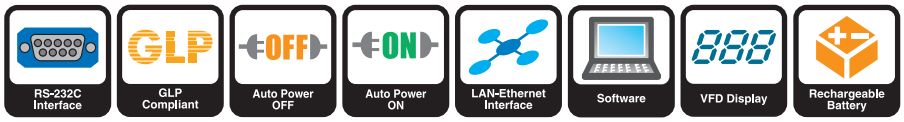
GLP/GMP/GCP/ISO Compliant
In accordance with GLP and LIMS regulations the balance ID number and calibration data can be printed out using A&D's AD-8121B or a PC.

Auto Power OFF Function
The display switches OFF automatically when the balance is inactive for 10 minutes as a power-saving tool.

Multiple Weighing Units of Measurement
Programmable or standard weighing units of measurement can be selected; g, pcs, %, oz, lb, lb-oz, ozt, ct, mom, dwt, GN, tl, tol, mes and MLT.

Response Indicator Function
Selectable FAST, MID or SLOW response to suit weighing environment conditions.

Built-in Rechargeable Battery (FXi-09)
An optional Ni-MH rechargeable battery pack can be fitted into the FX-i series for use without AC power and for mobile applications (10 hours charging time for 8 hours operation).



FX/Z-i SERIES

FX/Z-i Series Specifications

MODEL		FX-120i FZ-120i FX-120iWP FZ-120iWP	FX-200i FZ-200i FX-200iWP FZ-200iWP	FX-300i FZ-300i FX-300iWP FZ-300iWP	FX-1200i FZ-1200i FX- 1200iWP FZ-1200iWP	FX-2000i FZ-2000i FX-2000iWP FZ-2000iWP	FX-3000i FZ-3000i FX-3000iWP FZ-3000iWP
Capacity x Resolution	g	122 x 0.001	220 x 0.001	320 x 0.001	1220 x 0.01	2200 x 0.01	3200 x 0.01
	oz	4.30 x 0.00005	7.76 x 0.00005	11.28 x 0.00005	43.0 x 0.0005	77.6 x 0.0005	112.8 x 0.0005
	lb	0.268 x 0.000005	0.485 x 0.000005	0.705 x 0.000005	2.68 x 0.00005	4.85 x 0.00005	7.05 x 0.00005
	lb-oz	0 lb, 4.30 oz x 0.01 oz	0 lb, 7.76 oz x 0.01 oz	0 lb, 11.28 oz x 0.01 oz	2 lb, 11.30 oz x 0.01 oz	4 lb, 13.60 oz x 0.01 oz	7 lb, 0.88 oz x 0.01 oz
	ozt	3.92 x 0.00005	7.07 x 0.00005	10.28 x 0.00005	39.2 x 0.0005	70.7 x 0.0005	102.8 x 0.0005
	ct	610 x 0.005	1100 x 0.005	1600 x 0.005	6100 x 0.05	11000 x 0.05	16000 x 0.05
	dwt	78.6 x 0.001	141.7 x 0.001	206.2 x 0.001	786 x 0.01	1417 x 0.01	2062 x 0.01
	GN	1882 x 0.02	3395 x 0.02	4938 x 0.02	18827 x 0.2	33951 x 0.2	49383 x 0.2
Counting Mode	Min. Unit Mass	0.001g			0.01g		
	# of Samples	5, 10, 25, 50 or 100 pieces					
Percent Mode	Min. 100% Ref. Mass	0.100g			1.00g		
	Min. 100% Display	0.01%, 0.1%, 1% (depends on the reference mass stored					
Repeatability (Std. Deviation)		0.001g			0.01g		
Linearity		±0.002g			±0.02g		
Stabilization Time (typically set at FAST)		Approx. 1 second					
Sensitivity Drift (10°C to 30°C)		±2ppm / °C					
Operating Temp		5°C to 40°C (41°F to 104°F), 85% RH or less (No condensation					
Display Type		Vacuum Fluorescent Display (VFD)					
Display Refresh Rate		5 times / second, 10 times / second or 20 times / second					
Std. Serial Interface		RS-232C Interface					
Weighing Pan		130mm			150mm		
External Calibration		100g 50g	200g 100g	300g 200g 100g	1000g 500g	2000g 1000g	3000g 2000g 1000g
AC Adaptor		Confirm that the adaptor type is correct for the local voltage and power receptacle					
Power Consumption		Approx. 11VA (supplied to the AC Adaptor)					
External Dimensions		193 (W) x 262.5 (D) x 84.5 (H) mm					
Net Weight		Approx. 2.5kg					

Note: Legal-for-trade models (NTEP and Canada) are also available (FX-i Series only)

Options

- **FXi-02*** Quick UBS interface with cable
- **FXi-08*** Ethernet interface with WinCT-Plus software
- **FXi-09*** Built-in rechargeable battery
- **FXi-10** Small breeze break
- **FXi-11** Large breeze break
- **FXi-WP-10** Small breeze break (gray, for -WP models)
- **FXi-WP-11** Large breeze break (gray, for -WP models)
- **FXi-12** Animal weighing pan

* FXi-02, FXi-08 and FXi-09 cannot be used at the same time.
(Not IP65 compliant when used with FX-iWP and FZ-iWP)

Accessories

- **AD-1683** Static eliminator
- **AD-8920*** Remote display
- **AD-8922*** Remote controller
- **AD-8121B** Compact printer
- **AD-8526** RS/Ethernet converter
- **AX:KO2737-500** Waterproof RS-232C cable (5m)

* (Not IP65 compliant when used with FX-iWP and FZ-iWP)

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A&D Weighing
1756 Automation Parkway
San Jose, CA 95131
(800) 726-3364 or (408) 263-5333
Email: scales@andweighing.com
www.andweighing.com

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