Precision Balances

FZ-i
FX-i

Series

FZ-i

FX-i

A&D

...Clearly a Better Value

A&D Company, Limited
http://www.aandd.jp

"High Functionality You Can Afford"

The FZ-i/FX-i Series, a new addition to A&D's precision balances, rivals our GX/GF Series in performance and quality, but offers higher accessibility, bringing to you a cost-effective solution for a diverse array of applications.

Newly developed, Air-pump Controlled Internal Calibration* *(FZ-i models only)* *Patent Pending

For the internal calibration of the FZ-i Series, A&D adopted a direct-driving method that utilizes air pressure for its power source. This new method features a simple structure, high reliability and a fail-safe mechanism – the internal mass returns to the original position even if the calibration is interrupted by power failure, etc.

One Touch Automatic Calibration *(FZ-i models only)*
With just one press of a key, you can ensure the accuracy of your balance.

Compact, B5 Size Footprint

By taking advantage of our Compact Super Hybrid Sensor (C-SHS) technology*, A&D has significantly reduced the size of the FZ-i/FX-i Series – 25% smaller footprint than the GX/GF Series, making it ideal for installation and use in narrow spaces. *Patent Pending

Fast, 1 Second Stabilization

The C-SHS combines the best of magnetic force restoration and single point parallelogram load sensing technologies. This allows the C-SHS to realize a response speed of **just 1 second** while maintaining extremely high span stability. The FZ-i/FX-i Series will maximize your productivity and efficiency.
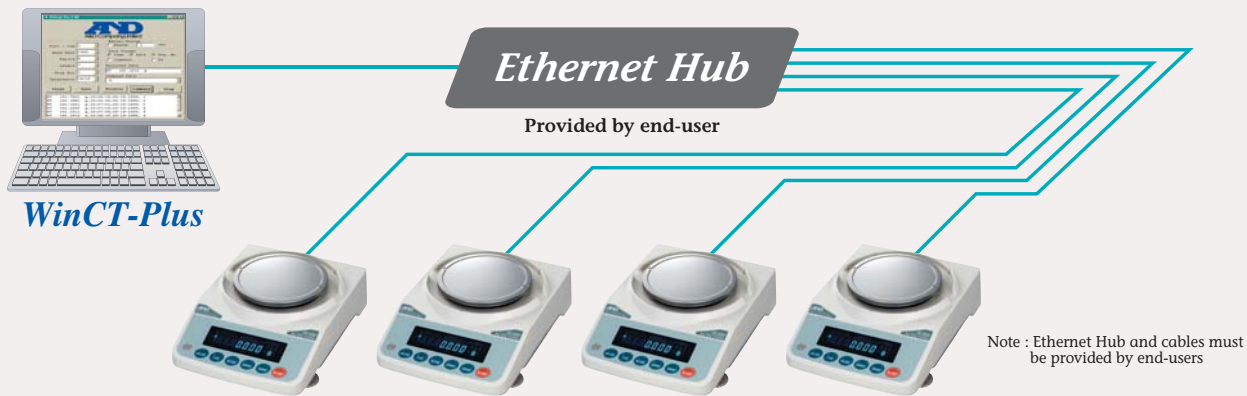
Shock Absorber Function* *Patent Pending

The internal shock absorber protects the C-SHS from the adverse effects of vertical and transverse overloading.

SHS	VFD Display	Quick USB	LAN-Ethernet Interface	RS-232C Interface	GLP Compliant	Counting Function	Percentage Function	Animal Weighing	Statistical Calculation
Super Hybrid Sensor									

Comparator Function	Auto Power ON	Auto Power OFF	Underhook	Rechargeable Battery	Software	Internal Calibration *(FZ-i)*	External Calibration *(FX-i)*

LAN-Ethernet Interface *(FXi-08)* **with WinCT-Plus Software**

WinCT-Plus software makes it possible for the user to easily set up an IP address, subnet mask, etc. The user can also send commands for control and acquisition of data from multiple balances.

Ethernet Hub

Provided by end-user

WinCT-Plus

Note : Ethernet Hub and cables must be provided by end-users

Quick USB Interface *(FXi-02)*

Easy-to-use optional USB interface, **with no driver installation necessary**, for transfer of weighing data to a computer (applicable OS – Windows 98 OSR2 or later)

Standard RS-232C Interface

Incorporates bi-directional communication with a PC, printer or other peripheral devices.

Multiple Weighing Units

Programmable or standard weighing units of measurement can be selected; g, pcs, %, oz, lb, L oz, ozt, ct, mom, dwt, GN, tl, tol, mes and MLT

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

Statistical Calculation Function

Can display and/or output statistical calculation data as No. (number of data), SUM (total), MAX (maximum), MIN (minimum), R [range (maximum – minimum)], AVE (average), SD (standard deviation) and CV (coefficient of variation)

Response Indicator Function

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

ACAI – Automatic Counting Accuracy Improvement

This counting function recalculates the average unit weight each time a sample is added to eliminate errors caused by variations in unit weight

Built-in Rechargeable Battery *(FXi-09)*

An optional Ni-MH rechargeable battery pack can be fitted into the FZ-i/FX-i Series for use without AC power and for mobile applications (10 hours charging time for 8 hours operation)

Large Breeze Break (FXi-11)
The small breeze break comes as standard with all the FZ-*i* models, FX-120*i*, FX-200*i* and FX-300*i*.

Specifications

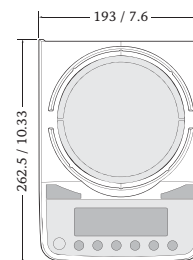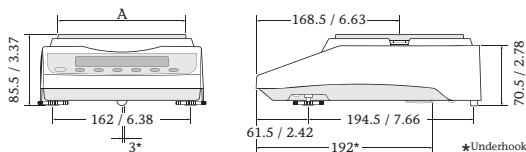|	FZ-120i / FX-120i	FZ-200i / FX-200i	FZ-300i / FX-300i	FZ-1200i / FX-1200i	FZ-2000i / FX-2000i	FZ-3000i / FX-3000i
Weighing capacity	122g	220g	320g	1220g	2200g	3200g
Minimum weighing value	0.001g			0.01g		
Counting mode — Minimum unit mass	0.001g			0.01g		
Counting mode — Number of samples	5, 10, 25, 50 or 100 pieces					
Percent mode — Minimum 100% reference mass	0.100g			1.00g		
Percent mode — Minimum 100% display	0.01%, 0.1%, 1% (depends on the reference mass stored)					
Repeatability (Standard 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 temperature	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					
Standard serial interface	RS-232C Interface					
Weighing pan (diameter)	130mm			150mm		
External calibration mass	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 85.5 (H) mm					
Net weight	FZ-i Approx. 3.0kg / FX-i Approx. 2.5kg					

Options

FXi-02*	Quick USB 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-12	Animal weighing pan (FZ,FX-1200i / 2000i / 3000i)
FXi-15	Carrying case

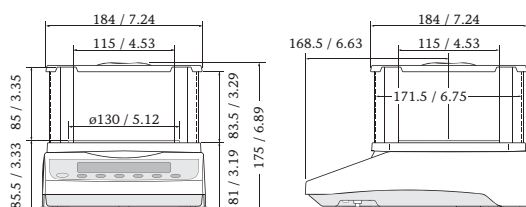∗ FXi-02, FXi-08 and FXi-09 cannot be used at the same time.
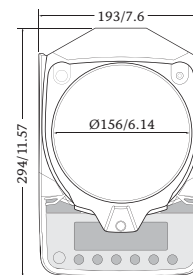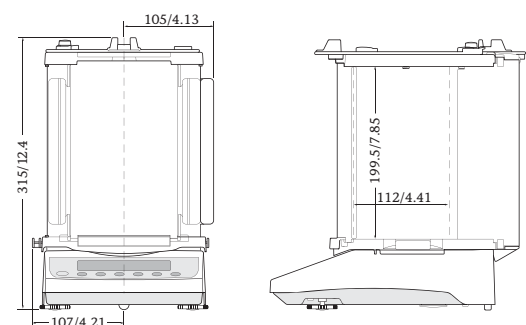
Accessories

AD-1683	Static eliminator
AD-1684	Electrostatic fieldmeter
AD-1689	Tweezers for calibration weight
AD-8920A	Remote display
AD-8922	Remote controller
AD-8121B	Compact printer
AD-8118C	Universal printer
AX-KO2466-200	RS-232C cable (9P-9P)
AD-8526	Serial/Ethernet converter
AX-USB-9P	Serial/USB converter
AX-CARATPAN-W	Carat pan (silver, 2pcs)
AX-CARATPAN-B	Carat pan (black, 2pcs)
AX-FXi-31	Main unit cover (5pcs)

AD-8121B

External Dimensions (mm/inches)

Pan size

Model	A
FZ,FX-120i / 200i / 300i	130 / 5.12
FZ,FX-1200i / 2000i / 3000i	150 / 5.91

A / 85.5 / 3.37 / 162 / 6.38 / 3* / 168.5 / 6.63 / 70.5 / 2.78 / 194.5 / 7.66 / 61.5 / 2.42 / 192* / ★Underhook

193 / 7.6 / 262.5 / 10.33

Dimensions with Small Breeze Break (FXi-10)
(Comes equipped with FZ,FX-120i/200i/300i, FZ-1200i/2000i/3000i)

184 / 7.24 / 115 / 4.53 / 85 / 3.35 / ø130 / 5.12 / 83.5 / 3.29 / 85.5 / 3.33 / 81 / 3.19 / 175 / 6.89 / 168.5 / 6.63 / 184 / 7.24 / 115 / 4.53 / 171.5 / 6.75

193 / 7.6 / 262.5 / 10.33

Dimensions with Large Breeze Break (FXi-11)

105/4.13 / 315/12.4 / 107/4.21 / 199.5/7.85 / 112/4.41 / 193/7.6 / 294/11.57 / Ø156/6.14