Precision Balances

FX-i

Series

FX-120i	FX-200i	FX-300i	FX-1200i	FX-2000i	FX-3000i
122g x 0.001g	220g x 0.001g	320g x 0.001g	1220g x 0.01g	2200g x 0.01g	3200g x 0.01g

A&D WEIGHING

...Clearly a Better Value

Realizing Compact, Incre

*We have developed a Miniaturized SHS (Super Hybrid Sensor) to...
which is 40% lighter and 47% smaller than our GF series with a...
while maintaining A&D's superior weighing functions.*

B5 size footprint
Ideal for installation and use in narrow spaces

Compact SHS (Super Hybrid Sensor) – 1 second stabilization
Quick stabilization speed with accurate weighing for better productivity

VFD – Vacuum Fluorescent Display
Large VFD for easy-to-read weighing results

SCF – 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)

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

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

```
                    A & D
MODEL      FX-300i
S/N        01234567
ID         ABCDEFG
DATE    2006/09/01
TIME      12:34:56
CALIBRATED(EXT.)
CAL.WEIGHT
          +200.000  g
SIGNATURE
```

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

Buzzer function
A beeping sound to indicate HI, LO or OK can be selected for use with the comparator function

Digital calibration function
Simple and easy to calibrate the balance with external calibration mass and possible to adjust the mass accuracy by ±50 digits

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)

Multiple weighing units of measurement
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

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

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 FX-i balances

WinCT-Plus

Provided by end-user

Ethernet Hub

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

...o achieve a compact precision balance,
...a 25% smaller footprint,

FX-i

SHS Super Hybrid Sensor · **888** VFD Display · **ACAi** Automatic Counting Accuracy Improvement · **GLP** · **RS-232C** · **FDC** Full Digital Calibration

COMPARATOR · **◄ ON ►** · **◄OFF►** · **Buzzer Function** · **ID** · **LAN**

ANIMAL · **USB** · **under hook** · **%** · **SCF** Statistical Calculation Function

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Animal weighing function

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

ACAI – Automatic Counting Accuracy Improvement

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

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, for hanging applications, allows for measurement of magnetic materials and density measurements in air and water

Auto Power ON function

The weighing mode display activates automatically with AC power so there is no need to press the ON/OFF key

Auto Power OFF function

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

Capacity indicator function

Weight on the pan displayed as a percentage of full capacity

Breeze breaks

Small and large breeze breaks are available to protect against wind for more accurate weighing. The small breeze break comes as standard with the FX-120i, FX-200i and FX-300i which are all 0.001g weighing resolution models

EMC – Electromagnetic Compatibility

The FX-i meets EMC regulations and is immune to the effects of electromagnetic fields of up to 10V/m

Specifications

	FX-120*i*	FX-200*i*	FX-300*i*	FX-1200*i*	FX-2000*i*	FX-3000*i*
Sensing method	Compact Super Hybrid Sensor (SHS)					
Gram (g)	122x0.001	220x0.001	320x0.001	1220x0.01	2200x0.01	3200x0.01
Decimal Ounce (oz)	4.30x0.00005	7.76x0.00005	11.28x0.00005	43.0x0.0005	77.6x0.0005	112.8x0.0005
Pound (lb)	0.268x0.000005	0.485x0.000005	0.705x0.000005	2.68x0.00005	4.85x0.00005	7.05x0.00005
Pound / Ounce (L, oz)	0L4.30ozx0.01oz	0L7.76ozx0.01oz	0L11.29ozx0.01oz	2L11.03ozx0.01oz	4L13.60ozx0.01oz	7L0.88ozx0.01oz
Troy Ounce (ozt)	3.92x0.00005	7.07x0.00005	10.28x0.00005	39.2x0.0005	70.7x0.0005	102.8x0.0005
Carat (ct)	610x0.005	1100x0.005	1600x0.005	6100x0.05	11000x0.05	16000x0.05
Momme (mom)	32.2x0.0005	58.6x0.0005	85.3x0.0005	322x0.005	586x0.005	853x0.005
Pennyweight (dwt)	78.6x0.001	141.7x0.001	206.2x0.001	786x0.01	1417x0.01	2062x0.01
Grain (GN)	1882x0.02	3395x0.02	4938x0.02	18827x0.2	33951x0.2	49383x0.2
Tael (TL)	3.22x0.00005	5.82x0.00005	8.46x0.00005	32.2x0.0005	58.2x0.0005	84.6x0.0005
Tola (t)	10.4x0.0001	18.8x0.0001	27.4x0.0001	104x0.001	188x0.001	274x0.001
Messghal (MS)	26.0x0.0005	46.9x0.0005	68.2x0.0005	260x0.005	469x0.005	682x0.005
Counting Mode Minimum unit mass	0.001g			0.01g		
Number of samples	5, 10, 25, 50 or 100 pieces					
Percent Mode Minimum 100% reference mass	0.100g			1.00g		
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 84.5 (H) mm					
Net weight	Approx. 2.5kg					

Options

FX*i*-02*   Quick USB interface with cable
FX*i*-08*   Ethernet interface with WinCT-Plus software
FX*i*-09*   Built-in rechargeable battery
FX*i*-10   Small breeze break
FX*i*-11   Large breeze break

* FX*i*-02, FX*i*-08 and FX*i*-09 cannot be used at the same time.
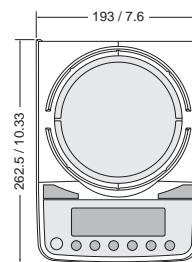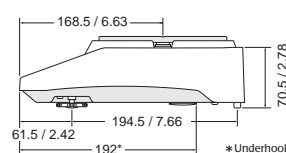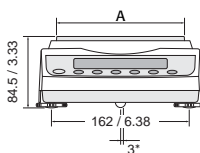
Accessories

AD-1683   Static eliminator
AD-8920   Remote display
AD-8922   Remote controller
AD-8121B   Compact Printer
AD-8526   RS/Ethernet converter

AD-8121B

External Dimensions (mm / inches)

Pan size

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

Dimensions with Small Breeze Break *(FX*i*-10)*
(Comes equipped with FX-120*i* / 200*i* / 300*i*)