

A&D Company, Ltd.

www.aandd.jp

High Performance and Functionality You Can Afford

Built on A&D's cutting-edge sensor technology, the FZ-i/FX-i series is a highly robust precision balance that delivers fast and accurate weighing without any frills, offering cost-effective solutions for a diverse array of applications.

Air-pump controlled internal calibration* (FZ-i models only)

Patented

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 innovative 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)

You can ensure the accuracy of the balance with just one key press. No special skills are required. This is useful after you changed the location of the balance or when there was a fluctuation in environment, etc.

Compact footprint: 198 mm × 294 mm

By taking advantage of our Compact Super Hybrid Sensor (C-SHS) technology[•], A&D significantly reduced the size of a precision balance—25% smaller footprint than our conventional models, making it ideal for installation and use in confined spaces. • Patented

High-speed weighing with 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 stabilization speed of **just 1 second** while maintaining extremely high span stability. The FZ-i/FX-i series will maximize your productivity and efficiency.

Guarded against accidental overloading*

An internal shock absorber^{*1} protects the C-SHS from the adverse effects of vertical and transverse overloading. This is especially effective if the balance is embedded in an automated weighing system where actuator malfunctions are a possibility.

*1 Not designed to handle impact loads

RS-232C interface (standard)

Bi-directional communication is possible with a PC, printer or other peripheral devices.

Quick USB interface (FXi-02)

The easy-to-use optional USB interface requires no driver or software installation for transfer of weighing data to a PC.^{*2} * Data transfer from the balance to a PC only. Please use the RS-232C standard

*2 Data transfer from the balance to a PC only. Please use the RS-232C standard interface with the serial/USB converter (AX-USB-9P, optional) for two-way communication or sending GLP or statistical calculation information via USB. Portable memory devices such as weighing environment logger (AD-1687) and data logger (AD-1688) are also available.

Ethernet interface (FXi-08) with WinCT-Plus software

You can send commands for controlling and acquiring data from multiple balances.



Multiple units of measure

You can easily select from: g, oz, lb, lb-oz, ozt, ct, mom, dwt, gr, pcs (counting mode), % (percent mode) and a user-programmable unit for conversion applications. One additional unit from tl, tol, or N can be added upon request.

GLP/GMP/GCP/ISO compliant output

For documentation requirements, the balance can output its manufacturer, model, serial number, ID number, date + time*³, space for signature for calibration report, calibration test report, and title & end blocks for a series of weighing results. *3 For the FZ-i models only. Please use the AD-8127 compact printer, which

For the FZ-i models only. Please use the AD-8127 compact printer, which has a calendar function, to print the date and time with the FX-i models.

Statistical calculation function (SCF)

The balance can display and output statistical calculation data including number of data, sum, maximum, minimum, range (maximum–minimum), average, standard deviation, and coefficient of variation to facilitate the analysis of measurements.

Adjustable response characteristics and hold function

From three preset combinations of weighing speed and stability (FAST, MID, or SLOW), select the one that best suits your environmental conditions (drafts and vibrations). A hold function is also available for weighing animals.

Automatic counting accuracy improvement (ACAI)

For the counting function, the balance recalculates the average unit weight as samples are added to eliminate errors caused by variations in unit weight.

Built-in rechargeable battery (FXi-09)

The Ni-MH rechargeable battery pack can be fitted into the balance for use without AC power (10 hours of charging for 8 hours of operation).



Large Breeze Break (FXi-11) A small breeze break is provided as standard for all the FZ-i models, FX-120i, FX-200i and FX-300i.

Specifications		FZ-120i	FZ-200i	FZ-300i	FZ-500i	FZ-1200i	FZ-2000i	FZ-3000i	FZ-5000i		
		FX-120i	FX-200i	FX-300i	FX-500i	FX-1200i	FX-2000i	FX-3000i	FX-5000i		
Capacity	Capacity		220 g	320 g	520 g	1220 g	2200 g	3200 g	5200 g		
Readability		0.001 g				0.01 g					
Repeatability (standard deviation)		0.001 g				0.01 g					
Linearity		±0.002 g				±0.02 g					
Stabilization time (when set to FAST under a good environment)		Approx. 1 second									
Sensitivity drift		±2 ppm /°C (10 to 30 °C/50 to 86 °F)									
Operating environment		5 to 40 °C (41 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									
Units of measure*i		g (gram), oz (ounce), lb (pound), lb-oz (pound-ounce), ozt (troy ounce), ct (metric carat), mom (momme),									
		dwt (pennyweight), gr (grain), pcs (counting mode), % (percent mode), and a user-programmable unit									
Counting mode Minimum unit mass			0.00)1 g		0.01 g					
	Number of samples		5, 10, 25, 50 or 100 pieces								
Percent mode	Minimum 100% reference mass	0.100 g 1.00 g									
	% readability		0.01 %, 0.1 %, 1 % (depends on the reference mass stored)								
Standard interface		RS-232C									
Weighing pan size (diameter)			130			150 mm					
Internal calibration			A	ir-pump conti	colled internal	calibration (F	Z-i models only	7)			
Applicable cali	bration weight value	100 g 50 g	200 g 100 g	300 g 200 g	500 g 400 g	1000 g 500 g	2000 g 1000 g	3000 g 2000 g	5000 g 4000 g		
			50 g	100 g	300 g		500 g	1000 g	3000 g		
				50 g	200 g			500 g	2000 g		
					100 g				1000 g		
					50 g				500 g		
AC adapter		Confirm that the adaptor type is correct for the local voltage and power receptacl					er receptacle				
Power consumption		Approx. 11VA (supplied to the AC adaptor)									
External dimensions		193 (W) × 262.5 (D) × 85.5 (H) mm									
Net weight		FZ-i Approx. 3.0 kg / FX-i Approx. 2.5 kg									

*i One additional unit from tael (Singapore/HK jewelry/Taiwan/China), tola or Newton can be added upon request.

Options

1	
FX i-02 * ⁱⁱ	Quick USB interface with cable
FX1-08* ⁱⁱ	Ethernet interface with WinCT-Plus software
FX i-09 * ⁱⁱ	Built-in rechargeable battery
FX i-10	Small breeze break

FXi-10 Accessories

AD 1000 Ctati .1:

Static eliminator
Electrostatic fieldmeter
Weighing environment logger
Weighing data logger
Tweezers for calibration weight
Remote display
Remote controller
Compact printer

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FXi-11 Large breeze break

FXi-12 Animal weighing pan (for the 1200/2000/3000/5000 g capacity models only) FXi-15 Carrying case

★ii FXi-02, FXi-08 and FXi-09 cannot be used at the same time.

	AD-8526	Serial/Ethernet converter	-
	AD-8527	Quick USB adapter	AD 40-1447
logger	AX-USB-9P	Serial/USB converter with cable	11 25.0 Int 45.0 Inte 1000.0
	AX-KO2466-200	RS-232C cable (9P-9P)	CT - THERE IS
n weight	AD-8529PC-W	Bluetooth converter for PC	And States
	AD-8529PR-W	Bluetooth converter for printer	
	AX-FXi-31	Main unit cover (5 pcs)	AD







Discover Precision

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