

WEIGHING
TOPLOADER BALANCES
A&D



Apple Street, Blueberry Office Park
Block B, Unit 11, Ground Floor
Randpark Ridge, Roodepoort, 2156

+27 11 475 8565 / +27 82 475 8565
sales@selectech.co.za
www.selectech.co.za

TOPLOADER BALANCES



FX/Z-i SERIES

FX/Z-iWP SERIES

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.



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



↑ Entry Level Models ↓

Choose Configuration

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.



FZ-300i with optional Breeze Break FXi-11

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.

Comparator Function

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

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.

Percent Mode Function

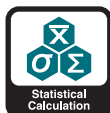
A sample can be registered as 100% and the weight of another sample can be compared as a percentage.

Animal Weighing Function

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

Underhook

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



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



External Calibration



IP65

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).



Internal Calibration



IP65

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

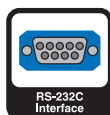
Programmable or standard weighing units of measurement can be selected; g, pcs, %, oz, lb, lb-oz, ozt, ct, mom, dwt, GN, tl, tol, mes and MLT.

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).



RS-232C Interface



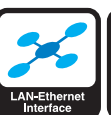
GLP Compliant



Auto Power OFF



Auto Power ON



LAN-Ethernet Interface



Software



VFD Display



Rechargeable Battery

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 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-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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