Dust & Water-Proof Precision Balances

FZ-iWP
FX-iWP

Series

ISO 9000 CERTIFIED

...Clearly a Better Value

A&D Company, Limited
http://www.aandd.jp
The World’s First IP65 Compliant, Dust & Water-Proof Precision (1 mg) Balances

Yet another breakthrough from A&D enabling the measurement of powder or liquid at 1 mg resolution, eliminating any worries about damage to the balance!

What does “IP65” mean?

An 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).

Newly Developed, Air-Pump Controlled Internal Calibration

(FZ-iWP models only)  *1 Patent Pending

For the internal calibration of the FZ-iWP 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-iWP models only)

With just one press of a key, you can ensure the accuracy of your balance.
Compact, B5 Size Footprint
A&D’s latest, Compact Super Hybrid Sensor (C-SHS) technology has significantly reduced the size of the FZ-iWP/FX-iWP Series – a 25% smaller footprint than the GX/GF Series – making it ideal for installation and use in narrow spaces.

Fast, 1 Second Stabilization
While maintaining extremely high span stability, the C-SHS also realizes an ultra-fast response speed – just 1 second – to maximize your productivity and efficiency.

RS-232C Interface (standard)
Bi-directional communication is possible with a PC, printer or other peripheral device.

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.

LAN-Ethernet Interface (FXi-08) with WinCT-Plus Software
The user can send commands for controlling and acquiring data from multiple balances.

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

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.

Statistical Calculation Function
The balance displays and/or outputs 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).

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

Large Breeze Break (FXi-WP-11)
Note: All FZ-iWP models, the FX-120iWP, the FX-200iWP and the FX-300iWP come with a small breeze break as standard.
Specifications

**Weighing capacity**
- FZ-120i/1000: 122g
- FZ-200i/2000: 220g
- FZ-300i/3000: 320g
- FZ-1200i/12000: 1220g
- FZ-2000i/20000: 2200g
- FZ-3000i/30000: 3200g

**Minimum weighing value**
- 0.001g

**Counting mode**
- Minimum unit mass: 0.001g

**Number of samples**
- 5, 10, 25, 50 or 100 pieces

**Percent mode**
- Minimum 100% reference mass: 1.00g
- Minimum 100% display: 0.01%, 0.1%, 1% (depends on the reference mass stored)

**Repeatability (Standard Deviation)**
- 0.001g
- ±0.002g

**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

**External calibration mass**
- 100g, 200g, 300g, 500g, 1000g, 2000g, 3000g

**Pan size**
- ø130 / 5.12
- ø150 / 5.91

**Internal calibration**
- Air-pump Controlled Internal Calibration (FZ-WP/2000 models only)

**Dimensions with Small Breeze Break (FX-WP-10)**
- Includes FZ/1200i/2000i/3000i/12000i/20000i/30000i models only

**Dimensions with Large Breeze Break (FX-WP-11)**
- Includes FZ/1200i/2000i/3000i/12000i/20000i/30000i models only

**Options**

**FX-02**
- Quick USB interface with cable

**FX-08**
- Ethernet interface with WinCT-Plus software

**FX-09**
- Built-in rechargeable battery

**FX-WP-10**
- Small breeze break (gray)

**FX-WP-11**
- Large breeze break (gray)

**FX-12**
- Animal weighing pan

**FX-15**
- Carrying case

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

**Accessories**

**AD-1683**
- Static eliminator

**AD-1684**
- Electrostatic field meter

**AD-1685**
- Weighing data logger

**AD-1689**
- Tweezers for calibration weight

**AD-8920A**
- Remote display

**AD-8922**
- Remote controller

**AD-8121B**
- Compact printer

**AD-8118**
- Universal printer

**AD-8526**
- Serial/Ethernet converter

**AD-8527**
- Quick USB adapter

**AX-USB-9P**
- Serial/USB converter

**AX-KO2737-500-EX**
- Waterproof RS-232C cable (5m)

**AX-CARATPAN-B**
- Carat pan (black, 2pcs)

**AX-CARATPAN-W**
- Carat pan (silver, 2pcs)

**AX-FX-31**
- Main unit cover (4pcs)

*Not IP65 compliant when used with FZ/WP/AD*

**Specifications**

- **Net weight**: Approx. 11VA (supplied to the AC adaptor)
- **Dimensions**: 193 (W) X 262.5 (D) X 85.5 (H) mm
- **Display refresh rate**: 5times /second, 10times /second or 20times /second
- **Counting mode**: Typically set at FAST
- **Weighing capacity**: 122g to 3200g
- **Minimum weighing value**: 0.001g
- **Counting mode**: Minimum unit mass: 0.001g
- **Number of samples**: 5, 10, 25, 50 or 100 pieces
- **Percent mode**: Minimum 100% reference mass: 1.00g
- **Repeatability (Standard Deviation)**: 0.001g
- **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**: 5times /second, 10times /second or 20times /second
- **External calibration mass**: 100g, 200g, 300g, 500g, 1000g, 2000g, 3000g
- **Pan size**: ø130 / 5.12
- **Internal calibration**: Air-pump Controlled Internal Calibration (FZ-WP/2000 models only)
- **Dimensions with Small Breeze Break (FX-WP-10)**
- **Dimensions with Large Breeze Break (FX-WP-11)**

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<ref>FX-02, FX-08 and FX-09 cannot be used at the same time</ref>

<ref>Not IP65 compliant when used with FZ/WP/AD</ref>

<ref>Approx. 11VA (supplied to the AC adaptor)</ref>

<ref>193 (W) X 262.5 (D) X 85.5 (H) mm</ref>

<ref>Approx. 2.7kg</ref>