

New quality of small mass weighing
Compliance with USP
Extraordinary performance and operation ergonomics



www.radwag.com

XA 4Y.A PLUS **Analytical Balances**

INNOVATIVE SOLUTIONS OF THE SYNERGY LAB LINE

Innovative solutions
 applied in **SYNERGY LAB** analytical balances
 guarantee extraordinary precision
 of top-class measuring equipment



Dual Weighing

- automatic adjustment of range to the weighed mass
- improvement of the minimum sample weight by 30%



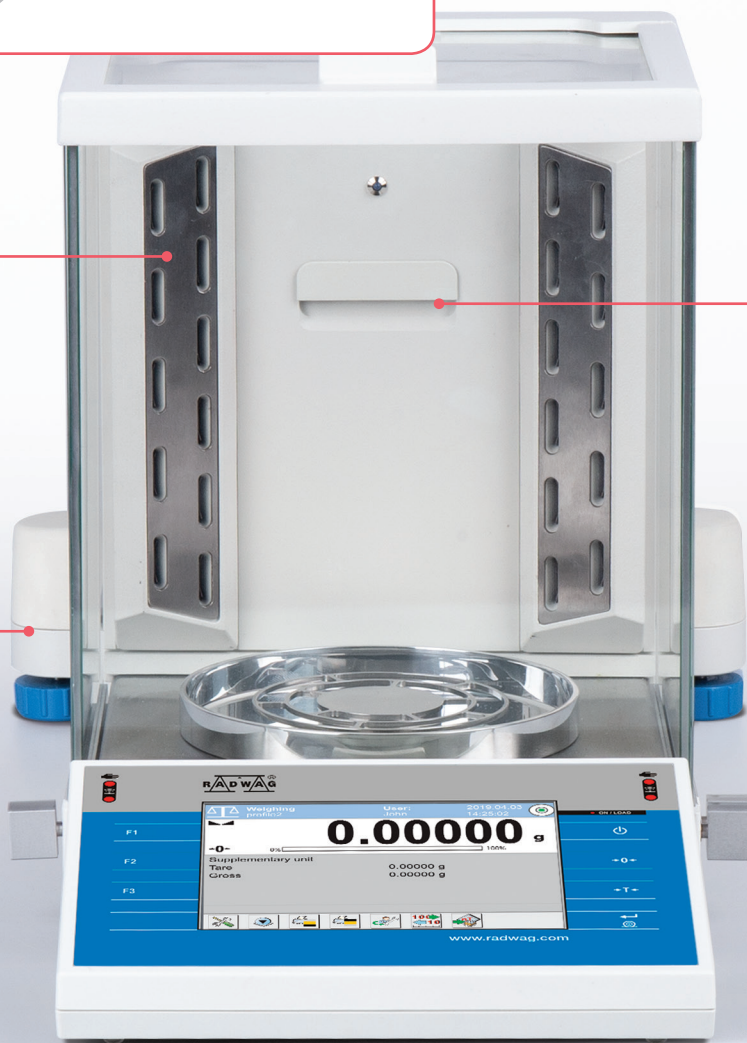
2-Point Adjustment

- repeatable weighing precision under variable ambient conditions



Antistatic Ionizer

- electrostatic charge compensation inside the weighing chamber
- compensation of positive and negative ions
- operation signalled via LED diode



Innovative System of Pressure Equalization

- guarantee of stable measurement
- elimination of errors generated by rapid change of pressure inside the weighing chamber



Automatic Reflex System

- ground tilt test
 - fully automatic levelling
- Feet of Brand New Design**
- better balance stability
 - protection against unfavourable level change



Warnings System

- system warning against potential error occurrence during the weighing process
- sensors for constant monitoring of ambient conditions and level status



Compliance with 21 CFR Part 11*

All balances of XA 4Y.A PLUS series are compliant with 21 CFR part 11 regulations and with provisions of EU GMP part 4, annex 11. They are equipped with a number of security and monitoring functions that control work of particular operators.

Full Data Protection

- advanced password settings
- verification of log-in operation correctness
- assigning operators with individual permissions
- auto logout
- electronic signature, e.g. for series of measurements
- granting/denying access to data management
- data backup
- modifications saved to Audit Trail file

* Upon use of the in-built Audit Trail module.



Weighing Chamber Electrostatics

- discharge of electrostatic charges thanks to antistatic glass coating
- elimination of influence of electrostatics onto the weighing results

Functionality and Ease of Operation

- 5.7" colour touch panel
- simple and intuitive operation
- numerous weighings functions and applications

- | | | | | |
|----------------|-----------------------|-----------------------------|----------------------------|--------------------------------|
| Parts counting | Statistics | Statistical quality control | Under hook weighing | Ambient conditions measurement |
| Dosing | Animal weighing | Autotest | Cooperation with titrators | Moveable range |
| Checkweighing | Differential weighing | Density determination | GLP procedures | Replaceable unit |
| Formulations | Percent weighing | Pipettes calibration | Proximity sensors | Multilingual menu |



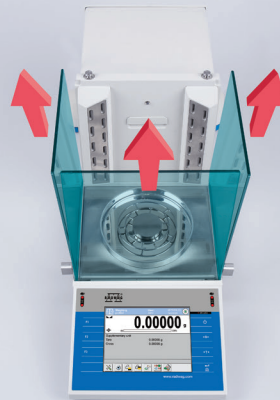
RadConnect

- mobile control of the balance
- preview of balance screen on a smartphone or a tablet
- on-line transfer of data from the balance
- iOS and Android app

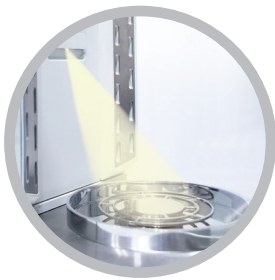


Wireless Communication

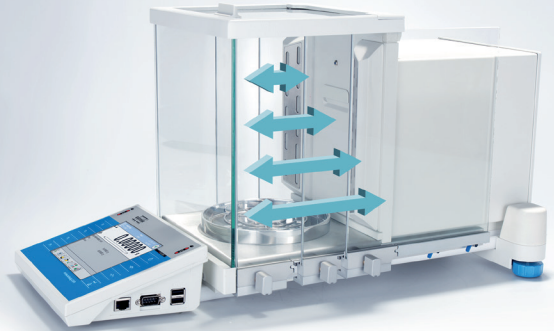
- wireless communication between the indicator and the weighing instrument enables operating the balance that is placed inside laminar flow hoods and fume cupboards



- Removable Weighing Chamber**
- fully removable weighing chamber components
 - uncomplicated and fast disassembly requiring use of no tools
 - latch-type system for components assembly
 - easy maintenance and cleaning



- Lit-Up Weighing Pan**
- optional weighing pan lit up with use of a LED diode
 - no influence onto the temperature in the weighing chamber



- Automatic Door**
- system of auto control of the weighing chamber door opening and closing
 - possibility to define how wide the door is to be opened
 - elimination of measurement-disturbing vibrations

XA 4Y.A PLUS Technical Specifications



	52 g - 210 g	220 g - 310 g
Maximum capacity [Max]	52 g - 210 g	220 g - 310 g
Readability [d]	0.01 mg	0.1 mg
Repeatability	0.005 mg	0.05 mg – 0.06 mg
Linearity	±0.03 mg – ±0.3 mg	±0.03 mg – ±0.3 mg
Minimum weight USP	10 mg	100 mg – 120 mg
Minimum weight	1 mg	10 mg – 12 mg
Stabilization time	~ 2.5 s – ~ 4 s	~ 2.5 s – ~ 4 s
Adjustment	internal (automatic)	internal (automatic)
Weighing pan dimensions	ø 90 mm (openwork)	ø 100 mm
Communication interfaces	2 × USB-A, 2 × RS 232, Ethernet, 4 × IN / 4 × OUT (digital), Wi-Fi®	

Repeatability is expressed as a standard deviation from 10 weighing cycles (for load value of 5% Max). | Wi-Fi® is a registered trademark of Wi-Fi Alliance.