

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



XA 4Y.M.A PLUS Microbalances

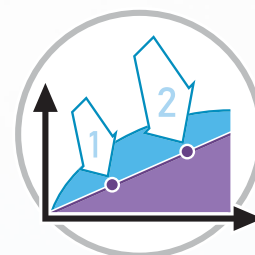
INNOVATIVE SOLUTIONS OF THE SYNERGY LAB LINE

Innovative solutions applied in SYNERGY LAB microbalances guarantee extraordinary precision of top-class measuring equipment



Smart Min Weight

- 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

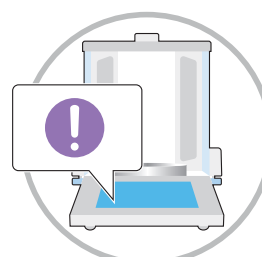


Reflex Level System

- 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



21 CFR Part 11 Compliance Module

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. This means that they support electronic signature and 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



Completely antistatic weighing chamber

- 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



Automatic sliding door



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



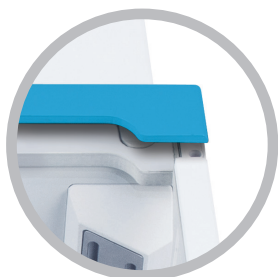
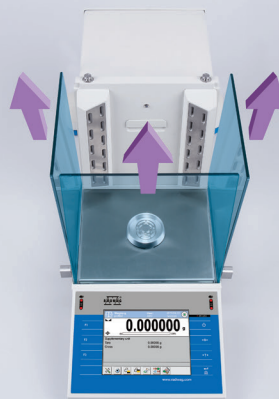
RadConnect

- 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

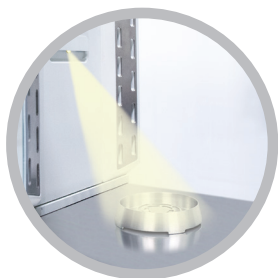


Wireless Communication

- 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.M.A PLUS



XA 4Y.M.A.P PLUS
(for piston pipettes calibration)

Technical Specifications

| | | |
|--------------------------|---|----------------------|
| Maximum capacity [Max] | 6 g – 52 g | 6 g – 52 g |
| Readability [d] | 1 µg – 5 µg | 1 µg – 5 µg |
| Repeatability | 1 µg – 2.5 µg | 1 µg – 2.5 µg |
| Linearity | ±7 µg – ±20 µg | ±9 µg – ±20 µg |
| Minimum weight USP | 2 mg – 5 mg | 2.4 mg – 5 mg |
| Minimum weight | 0.2 mg – 0.5 mg | 0.24 mg – 0.5 mg |
| Stabilization time | ~ 3.5 s | ~ 3.5 s |
| Adjustment | internal (automatic) | internal (automatic) |
| Weighing pan dimensions | ø 30 mm (openwork) | ø 26 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.