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

XA 4Y.A PLUS
Analytical Balances

INNOVATIVE SOLUTIONS OF THE SYNERGY LAB LINE
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

2-Point Adjustment
• repeatable weighing precision under variable ambient conditions

Innovative solutions applied in SYNERGY LAB analytical balances 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%

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 complaint 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
Dosing
Checkweighing
Formulations
Statistics
Animal weighing
Differential weighing
Percent weighing
SQC
Autotest
Density determination
Pipettes calibration
Automatic sliding door
Cooperation with titrators
GLP procedures
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**

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

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.

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