



More information on the website  
radwag.com/en/info,w1,4NK

# XA 6/21.4Y.M.A.P PLUS Microbalance



The drawings, photos and graphics used are for illustrative purposes only.

## Functions

-  Autotest
-  Dosing
-  Percent Weighing
-  Parts counting
-  Formulation
-  Newton unit measurement
-  Statistics
-  Checkweighing
-  IR sensors
-  GLP Procedures
-  Animal weighing
-  Pipettes Calibration
-  Air density correction
-  Automatic sliding door
-  Differential weighing
-  Ambient conditions monitoring
-  Replaceable unit
-  Statistical Quality Control
-  Wi-Fi

## Datasheet

| Metrological parameters |          |
|-------------------------|----------|
| Maximum capacity [Max]  | 6 / 21 g |
| Minimum load            | 0.1 mg   |
| Readability [d]         | 1 / 2 µg |
| Verification unit [e]   | 1 mg     |

| Metrological parameters             |                                                                                                                                                                                                                                                                                        |
|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tare range                          | -21 g                                                                                                                                                                                                                                                                                  |
| Standard repeatability [5% Max]     | 1.3 µg                                                                                                                                                                                                                                                                                 |
| Standard repeatability [Max]        | 3.5 µg                                                                                                                                                                                                                                                                                 |
| Standard minimum weight (USP)       | 2.6 mg                                                                                                                                                                                                                                                                                 |
| Standard minimum weight (U=1%, k=2) | 0.26 mg                                                                                                                                                                                                                                                                                |
| Permissible repeatability [5% Max]  | 2 µg                                                                                                                                                                                                                                                                                   |
| Permissible repeatability [Max]     | 5 µg                                                                                                                                                                                                                                                                                   |
| Linearity                           | ±9 µg                                                                                                                                                                                                                                                                                  |
| Eccentric load deviation            | 15 µg                                                                                                                                                                                                                                                                                  |
| Sensitivity time drift              | $1 \times 10^{-6} / \text{Year} \times R_t$                                                                                                                                                                                                                                            |
| Stabilization time                  | ~ 3.5 s                                                                                                                                                                                                                                                                                |
| Adjustment                          | internal (automatic)                                                                                                                                                                                                                                                                   |
| OIML Class                          | I                                                                                                                                                                                                                                                                                      |
| Sensitivity temperature drift       | $1 \times 10^{-6} / ^\circ\text{C} \times R_t$                                                                                                                                                                                                                                         |
| Physical parameters                 |                                                                                                                                                                                                                                                                                        |
| Leveling system                     | automatic - Reflex Level System                                                                                                                                                                                                                                                        |
| Display                             | 5.7" resistive colour touchscreen                                                                                                                                                                                                                                                      |
| Weighing chamber doors              | automatic                                                                                                                                                                                                                                                                              |
| Delivery components                 | Microbalance, weighing pan, weighing pan shield, power supply, automatic pipette calibration adapter: (base, bottom ring, glass vessel, pipette calibration adapter, evaporation ring, weighing pan, glass lid, mechanical closing cover, protecting screw), brush, fabric dust cover. |
| Weighing chamber dimensions         | 199×170×217 mm                                                                                                                                                                                                                                                                         |
| Weighing pan dimensions             | ø 26 + ø 30 mm                                                                                                                                                                                                                                                                         |
| Packaging dimensions                | 750×492×595 mm                                                                                                                                                                                                                                                                         |
| Net weight                          | 14.5 kg                                                                                                                                                                                                                                                                                |
| Gross weight                        | 18.9 kg                                                                                                                                                                                                                                                                                |
| Construction                        |                                                                                                                                                                                                                                                                                        |
| Protection class                    | IP 43                                                                                                                                                                                                                                                                                  |
| Communication interface             |                                                                                                                                                                                                                                                                                        |
| Communication interface             | 2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi                                                                                                                                                                                                                              |
| Electrical parameters               |                                                                                                                                                                                                                                                                                        |
| Power supply                        | Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2.4A<br>Balance: 12 – 15V DC 1.1A max                                                                                                                                                                                                        |
| Environmental conditions            |                                                                                                                                                                                                                                                                                        |
| Operating temperature               | +10 ÷ +40 °C                                                                                                                                                                                                                                                                           |
| Relative humidity                   | 20% ÷ 80%                                                                                                                                                                                                                                                                              |

Repeatability is expressed as a standard deviation from 10 weighing cycles.

Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile.

\* Wi-Fi® is a registered trademark of Wi-Fi® Alliance.



Extra payment for verification



## Accessories

Automatic Variable-Volume Pipettes  
Workstation for Pipettes Calibration  
RS 232, RS 485 cables  
Label Printers  
Receipt Printer

RS 232, RS 485 cables  
RS 232 – USB Converter  
Professional Weighing Tables  
RS 232 cables (scale - printer)

## Software

- RAD Key [WX-010-0005]
- R-Lab [WX-010-0080]

- R-Pipettes [WX-010-0026]
- RADWAG Development Studio [WX-010-0104]

## Device dimensions

