



More information on the website  
radwag.com/en/info,w1,59R

# XA 52.4Y.M.A 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



Air density correction



Automatic sliding door



Differential weighing



Ambient conditions  
monitoring



Replaceable unit



Statistical Quality Control



Wi-Fi

## Datasheet

### Metrological parameters

|                        |        |
|------------------------|--------|
| Maximum capacity [Max] | 52 g   |
| Minimum load           | 0.5 mg |
| Readability [d]        | 5 µg   |
| Verification unit [e]  | 1 mg   |

| Metrological parameters             |                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------|
| Tare range                          | -52 g                                                                                    |
| Standard repeatability [5% Max]     | 2.2 µg                                                                                   |
| Standard repeatability [Max]        | 6 µg                                                                                     |
| Standard minimum weight (USP)       | 4.4 mg                                                                                   |
| Standard minimum weight (U=1%, k=2) | 0.44 mg                                                                                  |
| Permissible repeatability [5% Max]  | 3.4 µg                                                                                   |
| Permissible repeatability [Max]     | 8 µg                                                                                     |
| Linearity                           | ±20 µg                                                                                   |
| Eccentric load deviation            | 20 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, brush, fabric dust cover. |
| Weighing chamber dimensions         | 199×170×217 mm                                                                           |
| Weighing pan dimensions             | ø30 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

RS 232, RS 485 cables  
Label Printers  
Receipt Printer  
RS 232, RS 485 cables

RS 232 – USB Converter  
Stent Weighing Kit  
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

