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[radwag.com/us/info,w1,8PQ](http://radwag.com/us/info,w1,8PQ)

# XA 53.5Y.M.A.P Microbalance



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

## Functions

-  Autotest
-  Percent Weighing
-  Peak hold
-  Statistics
-  IR sensors
-  GLP Procedures
-  Pipettes Calibration
-  Air density correction
-  Automatic sliding door
-  Moveable range
-  Differential weighing
-  Ambient conditions monitoring
-  Replaceable unit
-  Statistical Quality Control
-  ALIBI Memory
-  Wi-Fi

## Datasheet

|                                 |        |
|---------------------------------|--------|
| Maximum capacity [Max]          | 53 g   |
| Minimum load                    | 0,1 mg |
| Readability [d]                 | 1 µg   |
| Verification unit [e]           | 1 mg   |
| Tare range                      | -53 g  |
| Standard repeatability [5% Max] | 1,5 µg |

|                                     |   |
|-------------------------------------|---|
| Standard repeatability [Max]        | 6 µg  |
| Standard minimum weight (USP)       | 3 mg  |
| Standard minimum weight (U=1%, k=2) | 0,3 mg                                      |
| Permissible repeatability [5% Max]  | 2,4 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   |

### Physical parameters

|                             |  |
|-----------------------------|--|
| Leveling system             | automatic – Reflex Level System  |
| Display                     | 10" graphic 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   |
| Capacity                    | 11 ml  |
| Weighing pan dimensions     | ø26 mm   |
| Packaging dimensions        | 750×492×595 mm   |
| Net weight                  | 14,5 kg  |
| Gross weight                | 18,9 kg  |

### Construction

|                                   |  |
|-----------------------------------|--|
| Protection class                  | IP 43  |
| Communication interface           | 2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot                                   |
| Power supply                      | Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A<br>Balance: 12 – 15V DC 1,4A max* |
| Operating temperature             | +10 – +40 °C   |
| Operating temperature change rate | ±0,3 °C / 1 h (±1 °C / 8 h)  |
| Relative humidity                 | 40% – 80%  |
| Relative humidity change rate     | ±1% / h (±4% / 8 h)  |

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

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

\* The power supply can be connected to the socket on the back of the balance housing or to the terminal.

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



Extra payment for verification



## Accessories

MediaBox  
RFID Tags  
Antivibration tables  
Power Adapters  
Protective cover for balances  
Additional modules  
Anti-Draft Chamber for Microbalances  
Automatic Variable-Volume Pipettes  
Professional Weighing Tables  
Protective cover for balances  
Barcode scanners

Workstation for pipettes calibration  
RS 232, RS 485 cables  
Label Printers  
THBR 2.0 System - Ambient Conditions Monitoring  
RS 232, RS 485 cables  
Anti-Draft Chamber for XA 4Y and XA 5Y Balances  
Antistatic ionizer  
Receipt Printer  
Fingerprint Reader  
RS 232 – USB Converter  
Under-pan weighing

## Software

- E2R Weighing [WX-010-0099]
- RAD Key [WX-010-0005]
- Label Editor R02 [WX-010-0094]
- Scale Editor - EWAG 2.1 [WX-010-0173]

- E2R Weighing Records [WX-010-0038]
- R-Pipettes [WX-010-0026]
- RADWAG Remote Desktop [WX-010-0107]
- RADWAG Development Studio [WX-010-0104]