



# XA 53.5Y.M.A.P Microbalance
















WL-112-0003

More information on the website  
[radwag.com/en/info,w1,8PQ](http://radwag.com/en/info,w1,8PQ)



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

Metrological parameters	
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

<b>Metrological parameters</b>	
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	1×10 <sup>-6</sup> /Year×Rt
Stabilization time	~ 3.5 s
Adjustment	internal (automatic)
OIML Class	I
<b>Physical parameters</b>	
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
<b>Construction</b>	
Protection class	IP 43
<b>Communication interface</b>	
Communication interface	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot
<b>Electrical parameters</b>	
Power supply	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2.4A Balance: 12 – 15V DC 1.4A max*
<b>Environmental conditions</b>	
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.



Additional fee for verification



## Accessories (Additional Fee)

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 (Additional Fee)

- E2R Weighing [WX-010-0099]
- RAD Key [WX-010-0005]
- Label Editor R02 [WX-010-0094]
- R-Lab [WX-010-0080]
- RADWAG Development Studio [WX-010-0104]

- E2R Weighing Records [WX-010-0038]
- R-Pipettes [WX-010-0026]
- RADWAG Remote Desktop [WX-010-0107]
- Scale Editor 2.1 [WX-010-0173]