



# XA 53.5Y.M Microbalance

WL-109-0022

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



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

## Functions

- Autotest
- Dosing
- Percent Weighing
- Parts counting
- Peak hold
- Formulation
- Newton unit measurement
- Statistics
- Checkweighing
- IR sensors
- GLP Procedures
- Animal weighing
- Pipettes Calibration
- Air density correction
- Density determination
- Differential weighing
- Ambient conditions monitoring
- Statistical Quality Control
- Packaged Goods Control
- ALIBI Memory
- Wi-Fi

## Datasheet

### Metrological parameters

Maximum capacity [Max]	53 g
Minimum load	0.1 mg

<b>Metrological parameters</b>	
Readability [d]	1 µg
Verification unit [e]	1 mg
Tare range	-53 g
Minimum weight (USP)	1.4 mg
Minimum weight (U=1%, k=2)	0.14 mg
Standard repeatability [5% Max]	0.7 µg
Permissible repeatability [5% Max]	3 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	semi-automatic – LevelSENSING
Display	10" graphic colour touchscreen
Weighing chamber doors	manual
Delivery components	Microbalance, weighing pan, weighing pan shield, bottom cover, power supply, brush, fabric dust cover.
Weighing chamber dimensions	168×160×228 mm
Weighing pan dimensions	ø30 mm
Packaging dimensions W x D x H	750×492×595 mm
Net weight	9.8 kg
Gross weight	14.3 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 Max; 15V DC 2.4A Balance: 12 – 15V DC 1.4A max; 9 – 17W*
<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)

**Standard repeatability [5% Max]** and **Standard minimum weight (USP)** are parameters obtained in automatic mode under special laboratory conditions.

**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.

\* Power consumption depends on the terminal configuration as well as the number and type of external devices connected.

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.

## Accessories (Additional Fee)

MediaBox  
 RFID Tags  
 Antivibration Tables  
 Power Adapters  
 RS 232, RS 485 cables  
 Additional modules  
 Anti-Draft Chamber for Microbalances  
 Professional Weighing Tables  
 Protective cover for balances  
 Barcode scanners  
 Automatic feeders  
 MICRO-KIT - Set of Holders for Microscale Glassware

Label Printers  
 THBR 2.0 System - Ambient Conditions Monitoring  
 Adapters for Pipettes Calibration  
 Anti-Draft Chamber for XA 4Y and XA 5Y Balances  
 Weighing dishes  
 Antistatic ionizer  
 Receipt Printer  
 Fingerprint Reader  
 Adapter for Pipette Calibration  
 RS 232 – USB Converter  
 Under-pan weighing

## Software (Additional Fee)

- E2R Weighing [WX-010-0099]
- Label Editor R02 [WX-010-0094]
- R-Lab [WX-010-0080]
- RADWAG Development Studio [WX-010-0104]
- RAD Key [WX-010-0005]
- RADWAG Remote Desktop [WX-010-0107]
- Scale Editor 2.1 [WX-010-0173]

## Device dimensions W x D x H

