



More information on the website
mirror.radwag.com/en/info,w1,OOD

XA 53.5Y.M Microbalance

WL-109-0022



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

Metrological parameters	
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	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$
Stabilization time	~ 3.5 s
Adjustment	internal (automatic)
OIML Class	I
Physical parameters	
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
Construction	
Protection class	IP 43
Communication interface	
Communication interface	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot
Electrical parameters	
Power supply	Adapter: 100 – 240V AC 50/60Hz 1A Max; 15V DC 2.4A Balance: 12 – 15V DC 1.4A max; 9 – 17W*
Environmental conditions	
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

