



XA 6/21.5Y.M.A.P Microbalance, XA 21.5Y.M.A.P Microbalance, XA 53.5Y.M.A.P Microbalance, XA 21/52.5Y.M.A.P Microbalance, XA 22.5Y.M.A.P.Q Microbalance, XA 52.5Y.M.A.P Microbalance

More information on the website  
[radwag.com/en/info,w1,07W](http://radwag.com/en/info,w1,07W)



XA 6/21.5Y.M.A.P Microbalance  
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 XA 22.5Y.M.A.P.Q Microbalance  
 XA 52.5Y.M.A.P Microbalance

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        | Automatic sliding door      | Density determination  |
| Differential weighing                              | Ambient conditions monitoring | Statistical Quality Control | Packaged Goods Control |
| ALIBI Memory                                       | Wi-Fi                         |                             |                        |
| Moveable range:<br>- XA 6/21.5Y.M.A.P Microbalance |                               |                             |                        |

# Datasheet

	XA 6/21.5Y.M.A.P Microbalance	XA 21/52.5Y.M.A.P Microbalance	XA 21.5Y.M.A.P Microbalance
<b>Metrological parameters</b>			
Maximum capacity [Max]	6/21 g	21/52 g	21 g
Minimum load	0,1 mg	0,1 mg	0,1 mg
Readability [d]	1/2 µg	1/5 µg	1 µg
Verification unit [e]	1 mg	1 mg	1 mg
Tare range	-21 g	-52 g	-21 g
Standard repeatability [5% Max]	1,3 µg	1,5 µg	1,3 µg
Standard repeatability [Max]	3,5 µg	6 µg	3,5 µg
Standard minimum weight (USP)	2,6 mg	3 mg	2,6 mg
Standard minimum weight (U=1%, k=2)	0,26 mg	0,3 mg	0,26 mg
Permissible repeatability [5% Max]	2 µg	2,4 µg	2 µg
Permissible repeatability [Max]	5 µg	8 µg	5 µg
<b>Repeatability</b>			
Linearity	±9 µg	±20 µg	±9 µg
Eccentric load deviation	15 µg	20 µg	15 µg
<b>Sensitivity offset</b>			
Sensitivity time drift	$1 \times 10^{-6}/\text{Year} \times \text{Rt}$	$1 \times 10^{-6}/\text{Year} \times \text{Rt}$	$1 \times 10^{-6}/\text{Year} \times \text{Rt}$
Stabilization time	~3,5 s	~3,5 s	~3,5 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	I	I	I
<b>Physical parameters</b>			
Leveling system	automatic - Reflex Level System	automatic - Reflex Level System	automatic - Reflex Level System
Display	10" touchscreen	10" touchscreen	10" touchscreen
Weighing chamber doors	automatic	automatic	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.	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.	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	199×170×217 mm	199×170×217 mm
Weighing pan dimensions	ø26 mm	ø26 mm	ø26 mm
Packaging dimensions	750×492×595 mm	750×492×595 mm	750×492×595 mm
Net weight	14,5 kg	14,5 kg	14,5 kg
Gross weight	18,9 kg	18,9 kg	18,9 kg
<b>Communication interface</b>			
Communication interface	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	USB-A ×2, USB-C, 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*	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,4A max*	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	+10 – +40 °C	+10 – +40 °C
Operating temperature change rate	±0,3°C/1h (±1°C/8h)	±0,3°C/1h (±1°C/8h)	±0,3°C/1h (±1°C/8h)
Relative humidity change rate	±1%/h (±4%/8h)	±1%/h (±4%/8h)	±1%/h (±4%/8h)

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

# Datasheet

	XA 22.5Y.M.A.P.Q Microbalance	XA 52.5Y.M.A.P Microbalance	XA 53.5Y.M.A.P Microbalance
<b>Metrological parameters</b>			
Maximum capacity [Max]	22 g	52 g	53 g
Minimum load	0,1 mg	0,5 mg	0,1 mg
Readability [d]	1 µg	5 µg	1 µg
Verification unit [e]	1 mg	1 mg	1 mg
Tare range	-21 g	-52 g	-53 g
Standard repeatability [5% Max]	–	2,2 µg	1,5 µg
Standard repeatability [Max]		6 µg	6 µg
Standard minimum weight (USP)	2,6 mg	4,4 mg	3 mg
Standard minimum weight (U=1%, k=2)	0,26 mg	0,44 mg	0,3 mg
Permissible repeatability [5% Max]	–	3,4 µg	2,4 µg
Permissible repeatability [Max]		8 µg	8 µg
Repeatability	0,0007 mg (at 1 g)	–	–
Linearity	0,0007 mg	±20 µg	±20 µg
Eccentric load deviation	15 µg	20 µg	20 µg
Sensitivity offset	0.05 mg (at 20 g)		
Sensitivity time drift	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$
Stabilization time	3,5 s	~3,5 s	~3,5 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	I	I	I
<b>Physical parameters</b>			
Leveling system	automatic - Reflex Level System	automatic - Reflex Level System	automatic - Reflex Level System
Display	10" touchscreen	10" touchscreen	10" touchscreen
Weighing chamber doors	automatic	automatic	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.	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.	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.
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Communication interface	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot
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<b>Environmental conditions</b>			
Operating temperature	+10 – +40 °C	+10 – +40 °C	+10 – +40 °C
Operating temperature change rate	±0,3°C/1h (±1°C/8h)	±0,3°C/1h (±1°C/8h)	±0,3°C/1h (±1°C/8h)
Relative humidity change rate	±1%/h (±4%/8h)	±1%/h (±4%/8h)	±1%/h (±4%/8h)

\* 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

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

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

## Software

RAD-KEY  
 R-Pipettes  
 Label Editor R02  
 R-LAB  
 RADWAG Development Studio

Audit Trail Reader  
 LabVIEW Driver  
 RADWAG Remote Desktop  
 Scales Editor 2.1  
 R.Barcode

## Device dimensions

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