



More information on the website
radwag.com/en/info,w1,0SG

XA 6.5Y.M.A Microbalance, XA 21/52.5Y.M.A Microbalance, XA 6/21.5Y.M.A Microbalance, XA 53.5Y.M.A Microbalance, XA 21.5Y.M.A Microbalance, XA 52.5Y.M.A Microbalance



XA 6.5Y.M.A Microbalance
XA 21/52.5Y.M.A Microbalance
XA 6/21.5Y.M.A Microbalance
XA 53.5Y.M.A Microbalance
XA 21.5Y.M.A Microbalance
XA 52.5Y.M.A 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:
- XA 6/21.5Y.M.A
Microbalance

Datasheet

	XA 6.5Y.M.A Microbalance WL-109-0013	XA 6/21.5Y.M.A Microbalance WL-109-1003	XA 21/52.5Y.M.A Microbalance WL-109-1004
Metrological parameters			
Maximum capacity [Max]	6,1 g	6 / 21 g	21 / 52 g
Minimum load	0,1 mg	0,1 mg	0,1 mg
Readability [d]	1 µg	1 / 2 µg	1 / 5 µg
Verification unit [e]	1 mg	1 mg	1 mg
Tare range	-6,1 g	-21 g	-52 g
Standard repeatability [5% Max]	0,8 µg	1,3 µg	1,5 µg
Standard repeatability [Max]	2,5 µg	3,5 µg	6 µg
Standard minimum weight (USP)	1,6 mg	2,6 mg	3 mg
Standard minimum weight (U=1%, k=2)	0,16 mg	0,26 mg	0,3 mg
Permissible repeatability [5% Max]	1,5 µg	2 µg	2,4 µg
Permissible repeatability [Max]	3 µg	5 µg	8 µg
Linearity	±7 µg	±9 µg	±20 µg
Eccentric load deviation	7 µg	15 µg	20 µg
Sensitivity time drift	$1 \times 10^{-6} / \text{Year} \times R_t$	$1 \times 10^{-6} / \text{Year} \times R_t$	$1 \times 10^{-6} / \text{Year} \times R_t$
Stabilization time	~ 3,5 s	~ 3,5 s	~ 3,5 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	I	I	I
Physical parameters			
Leveling system	automatic – Reflex Level System	automatic – Reflex Level System	automatic – Reflex Level System
Display	10" graphic colour touchscreen	10" graphic colour touchscreen	10" graphic colour touchscreen
Weighing chamber doors	automatic	automatic	automatic
Delivery components	Microbalance, weighing pan, weighing pan shield, power supply, brush, fabric dust cover.	Microbalance, weighing pan, weighing pan shield, power supply, brush, fabric dust cover.	Microbalance, weighing pan, weighing pan shield, power supply, brush, fabric dust cover.
Weighing chamber dimensions	199×170×217 mm	199×170×217 mm	199×170×217 mm
Weighing pan dimensions	ø30 mm	ø30 mm	ø30 mm
Packaging dimensions W x D x H	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	20 kg	18,9 kg	18,9 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Communication interface			
Communication interface	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot
Electrical parameters			
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*
Environmental conditions			
Operating temperature	+10 – +40 °C	+10 – +40 °C	+10 – +40 °C
Operating temperature change rate	±0,3 °C / 1 h (±1 °C / 8 h)	±0,3 °C / 1 h (±1 °C / 8 h)	±0,3 °C / 1 h (±1 °C / 8 h)
Relative humidity	40% – 80%	40% – 80%	40% – 80%
Relative humidity change rate	±1% / h (±4% / 8 h)	±1% / h (±4% / 8 h)	±1% / h (±4% / 8 h)

Repeatability is expressed as a standard deviation from 10 cycles of mass standard weighing. Stabilization time dependson 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.

Datasheet

	XA 21.5Y.M.A Microbalance WL-109-0015	XA 52.5Y.M.A Microbalance WL-109-0017	XA 53.5Y.M.A Microbalance WL-109-0018
Metrological parameters			
Maximum capacity [Max]	21 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]	1,3 µg	2,2 µg	1,5 µg
Standard repeatability [Max]	3,5 µg	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]	2 µg	3,4 µg	2,4 µg
Permissible repeatability [Max]	5 µg	8 µg	8 µg
Linearity	±9 µg	±20 µg	±20 µg
Eccentric load deviation	15 µg	20 µg	20 µg
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
Physical parameters			
Leveling system	automatic – Reflex Level System	automatic – Reflex Level System	automatic – Reflex Level System
Display	10" graphic colour touchscreen	10" graphic colour touchscreen	10" graphic colour touchscreen
Weighing chamber doors	automatic	automatic	automatic
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Net weight	14,5 kg	14,5 kg	14,5 kg
Gross weight	20 kg	20 kg	20 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Communication interface			
Communication interface	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, RS 232 (COM3), HDMI, Ethernet, Wi-Fi, Hotspot
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Environmental conditions			
Operating temperature	+10 – +40 °C	+10 – +40 °C	+10 – +40 °C
Operating temperature change rate	±0,3 °C / 1 h (±1 °C / 8 h)	±0,3 °C / 1 h (±1 °C / 8 h)	±0,3 °C / 1 h (±1 °C / 8 h)
Relative humidity	40% – 80%	40% – 80%	40% – 80%
Relative humidity change rate	±1% / h (±4% / 8 h)	±1% / h (±4% / 8 h)	±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
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
RS 232, RS 485 cables
Adapters for Pipettes Calibration
Anti-Draft Chamber for XA 4Y and XA 5Y Balances
Weighing dishes
Antistatic ionizer
Receipt Printer
Fingerprint Reader
RS 232 – USB Converter
Under-pan weighing

Software (Additional Fee)

E2R System
Label Editor R02
R-LAB
RADWAG Development Studio

RAD-KEY
RADWAG Remote Desktop
Scales Editor 2.1

Device dimensions W x D x H

XA 6.5Y.M.A Microbalance, XA 21/52.5Y.M.A Microbalance, XA 6/21.5Y.M.A Microbalance, XA 53.5Y.M.A Microbalance, XA 21.5Y.M.A Microbalance, XA 52.5Y.M.A Microbalance

