



**XA 21.4Y.M PLUS Microbalance, XA 53.4Y.M PLUS Microbalance, XA 6/21.4Y.M PLUS Microbalance, XA 52.4Y.M PLUS Microbalance, XA 6.4Y.M PLUS Microbalance, XA 21/52.4Y.M PLUS Microbalance**

More information on the website  
[radwag.com/en/info,w1,N2I](http://radwag.com/en/info,w1,N2I)



XA 21.4Y.M PLUS Microbalance  
XA 53.4Y.M PLUS Microbalance  
XA 6/21.4Y.M PLUS Microbalance  
XA 52.4Y.M PLUS Microbalance  
XA 6.4Y.M PLUS Microbalance  
XA 21/52.4Y.M PLUS Microbalance

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

# Datasheet

	<b>XA 6/21.4Y.M PLUS Microbalance WL-101-1063</b>	<b>XA 6.4Y.M PLUS Microbalance WL-101-0215</b>	<b>XA 21/52.4Y.M PLUS Microbalance WL-101-1064</b>
<b>Metrological parameters</b>			
<b>Maximum capacity [Max]</b>	6 / 21 g	6,1 g	21 / 52 g
<b>Minimum load</b>	0,1 mg	0,1 mg	0,1 mg
<b>Readability [d]</b>	1 / 2 µg	1 µg	1 / 5 µg
<b>Verification unit [e]</b>	1 mg	1 mg	1 mg
<b>Tare range</b>	-21 g	-6,1 g	-52 g
<b>Standard repeatability [5% Max]</b>	1,3 µg	0,8 µg	1,5 µg
<b>Standard repeatability [Max]</b>	3,5 µg	2,5 µg	6 µg
<b>Standard minimum weight (USP)</b>	2,6 mg	1,6 mg	3
<b>Standard minimum weight (U=1%, k=2)</b>	0,26 mg	0,16 mg	0,3
<b>Permissible repeatability [5% Max]</b>	2 µg	1,5 µg	2,4 µg
<b>Permissible repeatability [Max]</b>	5 µg	3 µg	8 µg
<b>Linearity</b>	±9 µg	±7 µg	±20 µg
<b>Eccentric load deviation</b>	15 µg	7 µg	20 µg
<b>Sensitivity time drift</b>	1×10 <sup>-6</sup> /Year×Rt	1×10 <sup>-6</sup> /Year×Rt	1×10 <sup>-6</sup> /Year×Rt
<b>Stabilization time</b>	~ 3,5 s	~ 3,5 s	~ 3,5 s
<b>Adjustment</b>	internal (automatic)	internal (automatic)	internal (automatic)
<b>OIML Class</b>	I	I	I
<b>Physical parameters</b>			
<b>Leveling system</b>	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING
<b>Display</b>	5,7" Resistive Color Touchscreen	5,7" Resistive Color Touchscreen	5,7" Resistive Color Touchscreen
<b>Weighing chamber doors</b>	manual	manual	manual
<b>Delivery components</b>	Microbalance, weighing pan, osłona weighing pans, bottom cover, power supply, brush, fabric dust cover.	Microbalance, weighing pan, osłona weighing pans, bottom cover, power supply, brush, fabric dust cover.	Microbalance, weighing pan, osłona weighing pans, bottom cover, power supply, brush, fabric dust cover.
<b>Weighing chamber dimensions</b>	168×163×228 mm	168×163×228 mm	168×163×228 mm
<b>Weighing pan dimensions</b>	ø30 mm	ø30 mm	ø30 mm
<b>Packaging dimensions</b>	750×492×595 mm	750×492×595 mm	750×492×595 mm
<b>Net weight</b>	9,8 kg	9,8 kg	9,8 kg
<b>Gross weight</b>	14,3 kg	14,3 kg	14,3 kg
<b>Construction</b>			
<b>Protection class</b>	IP 43	IP 43	IP 43
<b>Communication interface</b>			
<b>Communication interface</b>	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi
<b>Electrical parameters</b>			
<b>Power supply</b>	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,1A max
<b>Environmental conditions</b>			
<b>Operating temperature</b>	+10 – +40 °C	+10 – +40 °C	+10 – +40 °C
<b>Relative humidity</b>	40% – 80%	40% – 80%	40% – 80%

Repeatability is expressed as a standard deviation from 10 weighing cycles. Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile.

# Datasheet

	<b>XA 21.4Y.M PLUS Microbalance</b> WL-101-0214	<b>XA 52.4Y.M PLUS Microbalance</b> WL-101-0216	<b>XA 53.4Y.M PLUS Microbalance</b> WL-101-0226
<b>Metrological parameters</b>			
<b>Maximum capacity [Max]</b>	21 g	52 g	53 g
<b>Minimum load</b>	0,1 mg	0,5 mg	0,1 mg
<b>Readability [d]</b>	1 µg	5 µg	1 µg
<b>Verification unit [e]</b>	1 mg	1 mg	1 mg
<b>Tare range</b>	-21 g	-52 g	-53 g
<b>Standard repeatability [5% Max]</b>	1,3 µg	2,2 µg	1,5 µg
<b>Standard repeatability [Max]</b>	3,5 µg	6 µg	6 µg
<b>Standard minimum weight (USP)</b>	2,6	4,4 mg	3 mg
<b>Standard minimum weight (U=1%, k=2)</b>	0,26	0,44 mg	0,3 mg
<b>Permissible repeatability [5% Max]</b>	2 µg	3,4 µg	2,4 µg
<b>Permissible repeatability [Max]</b>	5 µg	8 µg	8 µg
<b>Linearity</b>	±9 µg	±20 µg	±20 µg
<b>Eccentric load deviation</b>	15 µg	20 µg	20 µg
<b>Sensitivity time drift</b>	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$
<b>Stabilization time</b>	~ 3,5 s	~ 3,5 s	~ 3,5 s
<b>Adjustment</b>	internal (automatic)	internal (automatic)	internal (automatic)
<b>OIML Class</b>	I	I	I
<b>Physical parameters</b>			
<b>Leveling system</b>	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING
<b>Display</b>	5,7" Resistive Color Touchscreen	5,7" Resistive Color Touchscreen	5,7" Resistive Color Touchscreen
<b>Weighing chamber doors</b>	manual	manual	manual
<b>Delivery components</b>	Microbalance, weighing pan, osłona weighing pans, bottom cover, power supply, brush, fabric dust cover.	Microbalance, weighing pan, osłona weighing pans, bottom cover, power supply, brush, fabric dust cover.	Microbalance, weighing pan, osłona weighing pans, bottom cover, power supply, brush, fabric dust cover.
<b>Weighing chamber dimensions</b>	168×163×228 mm	168×163×228 mm	168×163×228 mm
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<b>Packaging dimensions</b>	750×492×595 mm	750×492×595 mm	750×492×595 mm
<b>Net weight</b>	9,8 kg	9,8 kg	9,8 kg
<b>Gross weight</b>	14,3 kg	14,3 kg	14,3 kg
<b>Construction</b>			
<b>Protection class</b>	IP 43	IP 43	IP 43
<b>Communication interface</b>			
<b>Communication interface</b>	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi	2×RS232, 2×USB-A, Ethernet, 4 IN / 4 OUT (digital), Wi-Fi
<b>Electrical parameters</b>			
<b>Power supply</b>	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,1A max	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,1A max
<b>Environmental conditions</b>			
<b>Operating temperature</b>	+10 – +40 °C	+10 – +40 °C	+10 – +40 °C
<b>Relative humidity</b>	40% – 80%	40% – 80%	40% – 80%

Repeatability is expressed as a standard deviation from 10 weighing cycles. Stabilization time depends on the ambient conditions and the dynamics of weighing pan loading; specified for FAST profile.

\* Wi-Fi® is a registered trademark of Wi-Fi® Alliance.



Additional fee for verification



## Accessories (Additional Fee)

RS 232, RS 485 cables  
Label Printers  
Receipt Printer  
RS 232, RS 485 cables

RS 232 – USB Converter  
Professional Weighing Tables  
RS 232 cables (scale - printer)

## Software (Additional Fee)

RAD-KEY  
R-LAB

R-Pipettes  
RADWAG Development Studio