



XA 310.5Y.A Analytical Balance, XA 110.5Y.A Analytical Balance, XA 82/220.5Y.A Analytical Balance, XA 210.5Y.A Analytical Balance, XA 120/250.5Y.A Analytical Balance, XA 220.5Y.A Analytical Balance, XA 52.5Y.A Analytical Balance, XA 520.5Y.A Analytical Balance

More information on the website
radwag.com/en/info,w1,N0J



XA 310.5Y.A Analytical Balance
XA 220.5Y.A Analytical Balance
XA 520.5Y.A Analytical Balance



XA 110.5Y.A Analytical Balance
XA 82/220.5Y.A Analytical Balance
XA 210.5Y.A Analytical Balance
XA 120/250.5Y.A Analytical Balance
XA 52.5Y.A Analytical Balance

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 | Under-pan weighing | 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 82/220.5Y.A Analytical Balance
- XA 120/250.5Y.A Analytical Balance | | | |

Datasheet

	XA 52.5Y.A Analytical Balance	XA 82/220.5Y.A Analytical Balance	XA 110.5Y.A Analytical Balance
Metrological parameters			
Maximum capacity [Max]	52 g	82 / 220 g	110 g
Minimum load	1 mg	1 mg	1 mg
Readability [d]	0,01 mg	0,01 / 0,1 mg	0,01 mg
Verification scale interval [e]	1 mg	1 mg	1 mg
Tare range	-52 g	-220 g	-110 g
Standard repeatability [5% Max]	0,005 mg	0,005 mg	0,005 mg
Standard repeatability [Max]	0,01 mg	0,06 mg	0,02 mg
Standard minimum weight (USP)	10 mg	10 mg	10 mg
Standard minimum weight (U=1%, k=2)	1 mg	1 mg	1 mg
Permissible repeatability [5% Max]	0,012 mg	0,012 mg	0,012 mg
Permissible repeatability [Max]	0,02 mg	0,08 mg	0,03 mg
Linearity	±0,03 mg	±0,06 / 0,2 mg	±0,06 mg
Eccentric load deviation	0,03 mg	0,2 mg	0,06 mg
Sensitivity time drift	1×10 ⁻⁶ /Year×Rt	1×10 ⁻⁶ /Year×Rt	1×10 ⁻⁶ /Year×Rt
Stabilization time	4 s	4 s	4 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" touchscreen	10" touchscreen	10" touchscreen
Protection class	IP 43	IP 43	IP 43
Delivery components	Analytical Balance, weighing pan, weighing pan shield, centring ring, brush, fabric dust cover, power supply.	Analytical Balance, weighing pan, weighing pan shield, centring ring, brush, fabric dust cover, power supply.	Analytical Balance, weighing pan, weighing pan shield, centring ring, brush, fabric dust cover, power supply.
Weighing chamber dimensions	170×200×220 mm	170×200×220 mm	170×200×220 mm
Weighing pan dimensions	ø90 + ø85 (option) mm	ø90 + ø85 (option) mm	ø90 + ø85 (option) mm
Packaging dimensions	492×595×750 mm	435 x 885 x 540 mm	435 x 885 x 540 mm
Net weight	14,7 kg	14,7 kg	14,7 kg
Gross weight	19,1 kg	19,1 kg	19,1 kg
Communication interface			
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
Electrical parameters			
Power supply	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*
Environmental conditions			
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	20% – 80%	20% – 80%	20% – 80%
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 120/250.5Y.A Analytical Balance	XA 210.5Y.A Analytical Balance	XA 220.5Y.A Analytical Balance
Metrological parameters			
Maximum capacity [Max]	120 / 250 g	210 g	220 g
Minimum load	10 mg	1 mg	10 mg
Readability [d]	0,01 / 0,1 mg	0,01 mg	0,1 mg
Verification scale interval [e]	1 mg	1 mg	1 mg
Tare range	-250 g	-210 g	-220 g
Standard repeatability [5% Max]	0,005 mg	0,005 mg	0,05 mg
Standard repeatability [Max]	0,06 mg	0,025 mg	0,08 mg
Standard minimum weight (USP)	10 mg	10 mg	100 mg
Standard minimum weight (U=1%, k=2)	1 mg	1 mg	10 mg
Permissible repeatability [5% Max]	0,012 mg	0,012 mg	0,07 mg
Permissible repeatability [Max]	0,1 mg	0,035 mg	0,1 mg
Linearity	±0,06 / 0,2 mg	±0,1 mg	±0,2 mg
Eccentric load deviation	0,2 mg	0,1 mg	0,2 mg
Sensitivity time drift	1×10 ⁻⁶ /Year×Rt	1×10 ⁻⁶ /Year×Rt	1×10 ⁻⁶ /Year×Rt
Stabilization time	4 s	4 s	1,3 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" touchscreen	10" touchscreen	10" touchscreen
Protection class	IP 43	IP 43	IP 43
Delivery components	Analytical Balance, weighing pan, weighing pan shield, centring ring, brush, fabric dust cover, power supply.	Analytical Balance, weighing pan, weighing pan shield, centring ring, brush, fabric dust cover, power supply.	Analytical Balance, weighing pan, weighing pan shield, brush, fabric dust cover, power supply.
Weighing chamber dimensions	170×200×220 mm	170×200×220 mm	170×200×220 mm
Weighing pan dimensions	ø90 + ø85 (option) mm	ø90 + ø85 (option) mm	ø100 mm
Packaging dimensions	435 x 885 x 540 mm	435 x 885 x 540 mm	435 x 885 x 540 mm
Net weight	14,7 kg	14,7 kg	14,7 kg
Gross weight	19,1 kg	19,1 kg	19,1 kg
Communication interface			
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
Electrical parameters			
Power supply	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*
Environmental conditions			
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	20% – 80%	20% – 80%	20% – 80%
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 310.5Y.A Analytical Balance	XA 520.5Y.A Analytical Balance
Metrological parameters		
Maximum capacity [Max]	310 g	520 g
Minimum load	10 mg	-
Readability [d]	0,1 mg	0,1 mg
Verification scale interval [e]	1 mg	-
Tare range	-310 g	-520 g
Standard repeatability [5% Max]	0,05 mg	0,07 mg
Standard repeatability [Max]	0,1 mg	0,18 mg
Standard minimum weight (USP)	100 mg	140 mg
Standard minimum weight (U=1%, k=2)	10 mg	14 mg
Permissible repeatability [5% Max]	0,07 mg	0,12 mg
Permissible repeatability [Max]	0,15 mg	0,25 mg
Linearity	±0,3 mg	±0,5 mg
Eccentric load deviation	0,3 mg	0,4 mg
Sensitivity time drift	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$	$1 \times 10^{-6} / \text{Year} \times \text{Rt}$
Stabilization time	1,3 s	1,3 s
Adjustment	internal (automatic)	internal (automatic)
OIML Class	I	-
Physical parameters		
Leveling system	automatic - Reflex Level System	automatic - Reflex Level System
Display	10" touchscreen	10" touchscreen
Protection class	IP 43	IP 43
Delivery components	Analytical Balance, weighing pan, weighing pan shield, brush, fabric dust cover, power supply.	Analytical Balance, weighing pan, weighing pan shield, brush, fabric dust cover, power supply.
Weighing chamber dimensions	170×200×220 mm	170×200×220 mm
Weighing pan dimensions	ø100 mm	ø100 mm
Packaging dimensions	435 x 885 x 540 mm	435 x 885 x 540 mm
Net weight	14,7 kg	14,7 kg
Gross weight	19,1 kg	19,1 kg
Communication interface		
Communication interface	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	USB-A ×2, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot
Electrical parameters		
Power supply	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*	Adapter: 100 – 240V AC 50/60Hz 1A; 15V DC 2,4A Balance: 12 – 15V DC 1,6A max*
Environmental conditions		
Operating temperature	+10 – +40 °C	+10 – +40 °C
Operating temperature change rate	±0,3°C/1h (±1°C/8h)	±0,3°C/1h (±1°C/8h)
Relative humidity	20% – 80%	20% – 80%
Relative humidity change rate	±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

Antivibration Tables
 Adapter for Pipette Calibration
 Barcode scanners
 Holders for laboratory flasks
 Density determination KIT
 Holders for test tubes and filters
 Professional weighing table
 Protective cover for balances
 USB Hubs
 Label Printers

THBR 2.0 System - Ambient Conditions Monitoring
 Under-Pan Weighing Rack
 Anti-Draft Chamber for XA 4Y and XA 5Y Balances
 Weighing dishes
 Receipt Printer
 Fingerprint Reader
 RS 232 – USB Converter
 RS 232, RS 485 cables
 Under-pan weighing

Software

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

LabVIEW Driver
 RADWAG Remote Desktop
 Scales Editor 2.1
 R.Barcode

Device dimensions

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