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AS 62.5Y Analytical Balance, AS 220.5Y Analytical Balance, AS 160.5Y Analytical Balance, AS 82/220.5Y Analytical Balance, AS 60/220.5Y Analytical Balance, AS 3100.5Y Analytical Balance, AS 120.5Y Analytical Balance, AS 310.5Y Analytical Balance, AS 520.5Y Analytical Balance

More information on the website
radwag.com/en/info,w1,NC3

AS 62.5Y Analytical Balance
AS 82/220.5Y Analytical Balance
AS 60/220.5Y Analytical Balance
AS 120.5Y Analytical Balance

AS 220.5Y Analytical Balance
AS 160.5Y Analytical Balance
AS 310.5Y Analytical Balance
AS 520.5Y Analytical Balance

AS 3100.5Y 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
- Density determination
- Differential weighing
- Ambient conditions monitoring
- Statistical Quality Control
- Packaged Goods Control
- ALIBI Memory
- Wi-Fi

Datasheet

	AS 60/220.5Y Analytical Balance WL-104-0529	**AS 62.5Y Analytical Balance** WL-104-0530	**AS 82/220.5Y Analytical Balance** WL-104-0527
Metrological parameters			
Maximum capacity [Max]	60 / 220 g	62 g	82 / 220 g
Minimum load	1 mg	1 mg	1 mg
Readability [d]	0,01 / 0,1 mg	0,01 mg	0,01 / 0,1 mg
Verification unit [e]	1 mg	1 mg	1 mg
Tare range	-220 g	-62 g	-220 g
Minimum weight (USP)	20 mg	20 mg	20 mg
Minimum weight (U=1%, k=2)	2 mg	2 mg	2 mg
Standard repeatability [Max]	0,06 mg	0,017 mg	0,06 mg
Standard repeatability [5% Max]	0,01 mg	0,01 mg	0,01 mg
Permissible repeatability [Max]	0,1 mg	0,03 mg	0,1 mg
Permissible repeatability [5% Max]	0,02 mg	0,02 mg	0,02 mg
Linearity	±0,05 / 0,2 mg	±0,05 mg	±0,05 / 0,2 mg
Stabilization time	2 s	3 s	2 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	I	I	I
Physical parameters			
Leveling system	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING
Display	10" graphic colour touchscreen	10" graphic colour touchscreen	10" graphic colour touchscreen
Weighing chamber doors	manual	manual	manual
Delivery components	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.
Weighing chamber dimensions	190×190×227 mm	190×190×222 mm	190×190×227 mm
Weighing pan dimensions	ø90 open-work pan + ø85 (option) mm	ø90 open-work pan + ø85 (option) mm	ø90 open-work pan + ø85 (option) mm
Packaging dimensions W x D x H	600×400×550 mm	600×400×550 mm	545×455×575 mm
Net weight	7,14 kg	7,14 kg	7,14 kg
Gross weight	10,5 kg	10,5 kg	13 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Components and software			
Database capacity	7	7	7
Features of use			
Touch-free operation	2 IR Sensors	2 IR Sensors	2 IR Sensors
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 Max; 15V DC 2,4A Balance: 12 – 15V DC 1,4A max; 9 – 17W*	Adapter: 100 – 240V AC 50/60Hz 1A Max; 15V DC 2,4A Balance: 12 – 15V DC 1,4A max; 9 – 17W*	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	+10 – +40 °C	+10 – +40 °C
Ambient conditions monitoring (option)	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S
Relative humidity	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. 1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via USB interface exclusively. * Power consumption depends on the terminal configuration and the number and type of external devices connected.

Datasheet

	AS 120.5Y Analytical Balance WL-104-0528	**AS 160.5Y Analytical Balance** WL-104-0522	**AS 220.5Y Analytical Balance** WL-104-0523
Metrological parameters			
Maximum capacity [Max]	120 g	160 g	220 g
Minimum load	1 mg	10 mg	10 mg
Readability [d]	0,01 mg	0,1 mg	0,1 mg
Verification unit [e]	1 mg	1 mg	1 mg
Tare range	-120 g	-160 g	-220 g
Minimum weight (USP)	20 mg	120 mg	120 mg
Minimum weight (U=1%, k=2)	2 mg	12 mg	12 mg
Standard repeatability [Max]	0,025 mg	0,07 mg	0,07 mg
Standard repeatability [5% Max]	0,01 mg	0,06 mg	0,06 mg
Permissible repeatability [Max]	0,04 mg	0,1 mg	0,1 mg
Permissible repeatability [5% Max]	0,02 mg	0,09 mg	0,09 mg
Linearity	±0,07 mg	±0,2 mg	±0,2 mg
Stabilization time	2 s	2 s	2 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	I	I	I
Physical parameters			
Leveling system	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING
Display	10" graphic colour touchscreen	10" graphic colour touchscreen	10" graphic colour touchscreen
Weighing chamber doors	manual	manual	manual
Delivery components	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, bottom cover, power supply, fabric dust cover.
Weighing chamber dimensions	190×190×227 mm	190×190×227 mm	190×190×227 mm
Weighing pan dimensions	ø90 open-work pan + ø85 (option) mm	ø100 mm	ø100 mm
Packaging dimensions W x D x H	600×400×550 mm	600×400×550 mm	600×400×550 mm
Net weight	9,75 kg	7,3 kg	8,46 kg
Gross weight	13,15 kg	12 kg	13,05 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Components and software			
Database capacity	7	7	7
Features of use			
Touch-free operation	2 IR Sensors	2 IR Sensors	2 IR Sensors
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 Max; 15V DC 2,4A Balance: 12 – 15V DC 1,4A max; 9 – 17W*	Adapter: 100 – 240V AC 50/60Hz 1A Max; 15V DC 2,4A Balance: 12 – 15V DC 1,4A max; 9 – 17W*	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	+10 – +40 °C	+10 – +40 °C
Ambient conditions monitoring (option)	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S
Relative humidity	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. 1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via USB interface exclusively. * Power consumption depends on the terminal configuration and the number and type of external devices connected.

Datasheet

	AS 310.5Y Analytical Balance WL-104-0524	**AS 520.5Y Analytical Balance** WL-104-0526	**AS 3100.5Y Analytical Balance** WL-104-0525
Metrological parameters			
Maximum capacity [Max]	310 g	520 g	3100 g
Minimum load	10 mg	-	-
Readability [d]	0,1 mg	0,1 mg	1 mg
Verification unit [e]	1 mg	-	-
Tare range	-310 g	-520 g	-3100 g
Minimum weight (USP)	140 mg	140 mg	1 g
Minimum weight (U=1%, k=2)	14 mg	14 mg	100 mg
Standard repeatability [Max]	0,1 mg	0,2 mg	0,6 mg
Standard repeatability [5% Max]	0,07 mg	0,07 mg	0,5 mg
Permissible repeatability [Max]	0,15 mg	0,4 mg	1 mg
Permissible repeatability [5% Max]	0,12 mg	0,12 mg	0,8 mg
Linearity	±0,3 mg	±0,6 mg	±4 mg
Stabilization time	2,5 s	2,5 s	2 s
Adjustment	internal (automatic)	internal (automatic)	internal (automatic)
OIML Class	I	-	-
Physical parameters			
Leveling system	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING	semi-automatic – LevelSENSING
Display	10" graphic colour touchscreen	10" graphic colour touchscreen	10" graphic colour touchscreen
Weighing chamber doors	manual	manual	manual
Delivery components	Balance, weighing pan, weighing pan shield, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, bottom cover, power supply, fabric dust cover.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply, fabric dust cover.
Weighing chamber dimensions	190×190×227 mm	190×190×227 mm	190×190×227 mm
Weighing pan dimensions	ø100 mm	ø100 mm	ø90 mm (open-work pan)
Packaging dimensions W x D x H	600×400×550 mm	600×400×550 mm	600×400×550 mm
Net weight	7,3 kg	7,3 kg	7,3 kg
Gross weight	12 kg	9,3 kg	9,3 kg
Construction			
Protection class	IP 43	IP 43	IP 43
Components and software			
Database capacity	7	7	7
Features of use			
Touch-free operation	2 IR Sensors	2 IR Sensors	2 IR Sensors
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 Max; 15V DC 2,4A Balance: 12 – 15V DC 1,4A max; 9 – 17W*	Adapter: 100 – 240V AC 50/60Hz 1A Max; 15V DC 2,4A Balance: 12 – 15V DC 1,4A max; 9 – 17W*	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	+10 – +40 °C	+10 – +40 °C
Ambient conditions monitoring (option)	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S	THBR 2.0 System, THBR BOX, THB P, THB W, THB S
Relative humidity	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. 1 Barcode scanners, available as weighing instrument accessory, communicate with the instrument via USB interface exclusively. * Power consumption depends on the terminal configuration and the

number and type of external devices connected.

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

Additional fee for verification

Accessories (Additional Fee)

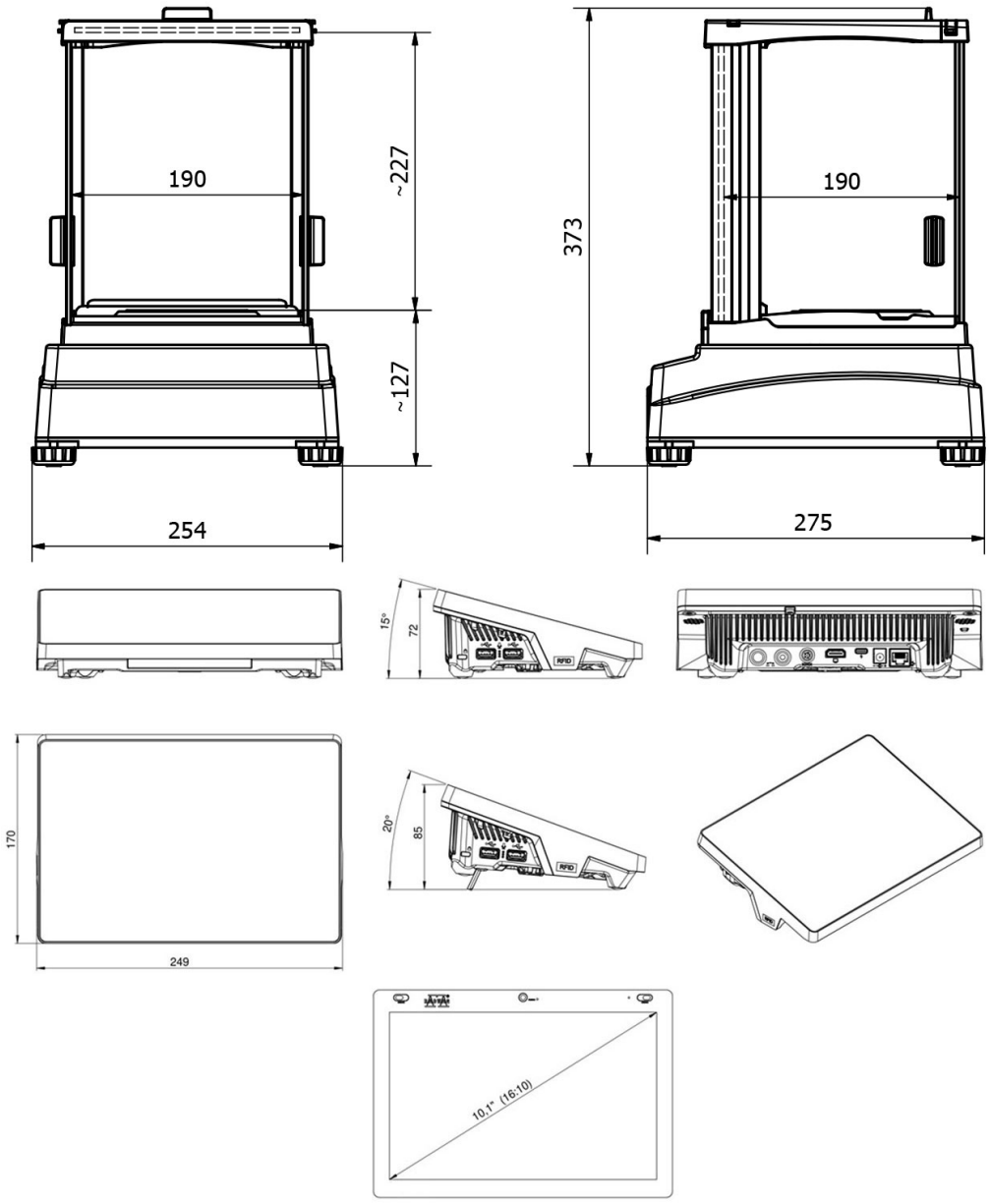
Antivibration Tables
Holders for laboratory flasks
Power Adapters
RS 232, RS 485 cables
Cigarette lighter receptacle power supply cables
Density determination KIT
Additional modules
Protective cover for balances
USB cable (scale - printer)
Professional Weighing Tables
Barcode scanners
Holders for test tubes and filters
Workstation for Pipettes Calibration
THBR 2.0 System - Ambient Conditions Monitoring
Weighing dishes
Antistatic ionizer
Receipt Printer
Fingerprint Reader
Under-pan weighing
RS 232 cables (scale - printer)
RS 232 – RS 485 Converter

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

AS 62.5Y Analytical Balance, AS 220.5Y Analytical Balance, AS 160.5Y Analytical Balance, AS 82/220.5Y Analytical Balance, AS 60/220.5Y Analytical Balance, AS 3100.5Y Analytical Balance, AS 120.5Y Analytical Balance, AS 310.5Y Analytical Balance, AS 520.5Y Analytical



Balance