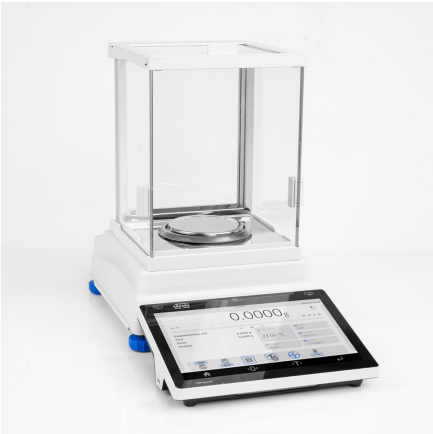
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AS 62.5Y Analytical Balance, AS 220.5Y Analytical Balance, AS 160.5Y Analytical Balance, AS 82/220.5Y Analytical Balance, AS 60/220.5Y Analytical Balance, AS 3100.5Y Analytical Balance, AS 120.5Y Analytical Balance, AS 310.5Y Analytical Balance, AS 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 3100.5Y Analytical Balance
AS 310.5Y Analytical Balance
AS 520.5Y 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
- 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	AS 62.5Y Analytical Balance	AS 82/220.5Y Analytical Balance
Metrological parameters			
Maximum capacity [Max]	60 / 220 g	62 g	82 / 220 g
Minimum load	-	-	-
Readability [d]	0,01 / 0,1 mg	0,01 mg	0,01 / 0,1 mg
Verification unit [e]	-	-	-
Tare range	-220 g	-62 g	-220 g
Standard repeatability [5% Max]	0,01 mg	0,01 mg	0,01 mg
Standard repeatability [Max]	0,06 mg	0,017 mg	0,06 mg
Standard minimum weight (USP)	20 mg	20 mg	20 mg
Standard minimum weight (U=1%, k=2)	2 mg	2 mg	2 mg
Permissible repeatability [5% Max]	0,02 mg	0,02 mg	0,02 mg
Permissible repeatability [Max]	0,1 mg	0,03 mg	0,1 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	-	-	-
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	600×400×550 mm	190×190×227 mm	545×455×575 mm
Net weight	7,14 kg	7,14 kg	7,14 kg
Gross weight	10,5 kg	10,5 kg	10,5 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, HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot
Electrical parameters			
Power supply	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max
Power consumption max.	4 W	4 W	4 W
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Ambient conditions monitoring	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 RS232 interface exclusively.

Datasheet

	AS 120.5Y Analytical Balance	AS 160.5Y Analytical Balance	AS 220.5Y Analytical Balance
Metrological parameters			
Maximum capacity [Max]	120 g	160 g	220 g
Minimum load	-	-	-
Readability [d]	0,01 mg	0,1 mg	0,1 mg
Verification unit [e]	-	-	-
Tare range	-120 g	-160 g	-220 g
Standard repeatability [5% Max]	0,01 mg	0,06 mg	0,06 mg
Standard repeatability [Max]	0,025 mg	0,07 mg	0,07 mg
Standard minimum weight (USP)	20 mg	120 mg	120 mg
Standard minimum weight (U=1%, k=2)	2 mg	12 mg	12 mg
Permissible repeatability [5% Max]	0,02 mg	0,09 mg	0,09 mg
Permissible repeatability [Max]	0,04 mg	0,1 mg	0,1 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	-	-	-
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.	Balance, weighing pan, weighing pan shield, bottom cover, power supply.
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	600×400×550 mm	600×400×550 mm	600×400×550 mm
Net weight	7,14 kg	7,3 kg	7,06 kg
Gross weight	10,5 kg	9,3 kg	12,5 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, HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot
Electrical parameters			
Power supply	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max
Power consumption max.	4 W	4 W	4 W
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Ambient conditions monitoring	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 RS232 interface exclusively.

Datasheet

	AS 310.5Y Analytical Balance	AS 520.5Y Analytical Balance	AS 3100.5Y Analytical Balance
Metrological parameters			
Maximum capacity [Max]	310 g	520 g	3100 g
Minimum load	-	-	-
Readability [d]	0,1 mg	0,1 mg	1 mg
Verification unit [e]	-	-	-
Tare range	-310 g	-520 g	-3100 g
Standard repeatability [5% Max]	0,07 mg	0,07 mg	0,5 mg
Standard repeatability [Max]	0,1 mg	0,2 mg	0,6 mg
Standard minimum weight (USP)	140 mg	140 mg	1000 mg
Standard minimum weight (U=1%, k=2)	14 mg	14 mg	100 mg
Permissible repeatability [5% Max]	0,12 mg	0,12 mg	0,8 mg
Permissible repeatability [Max]	0,15 mg	0,4 mg	1 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	-	-	-
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.	Balance, weighing pan, weighing pan shield, bottom cover, power supply.	Balance, weighing pan, weighing pan shield, centring ring, bottom cover, power supply.
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	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	9,3 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, HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot	2×USB-A, USB-C, HDMI, Ethernet, Wi-Fi, Hotspot
Electrical parameters			
Power supply	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max	Adapter: 100 – 240V AC 50/60Hz 0,6A; 12V DC 1,2A Balance: 12 – 15V DC 0,8A max
Power consumption max.	4 W	4 W	4 W
Environmental conditions			
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Ambient conditions monitoring	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 RS232 interface exclusively.

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

Accessories

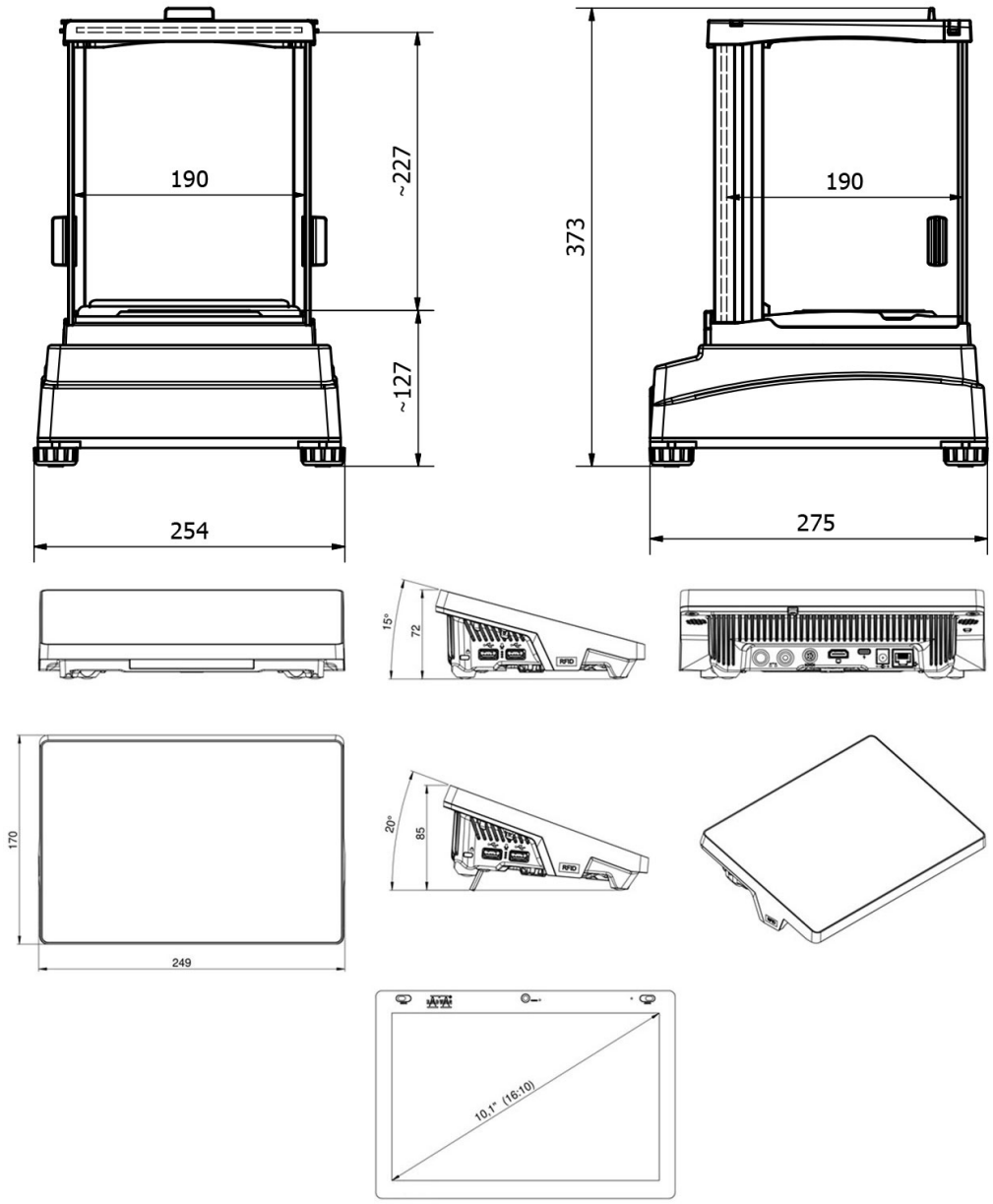
Antivibration Tables
Holders for laboratory flasks
Power Adapters
RS 232, RS 485 cables
Cigarette lighter receptacle power supply cables
Density determination KIT
Additional modules
USB cable (scale - printer)
Professional Weighing Tables
Protective cover for balances
Barcode scanners
Holders for test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

Software

E2R System
Label Editor R02
R-LAB
RADWAG Development Studio
RAD-KEY
RADWAG Remote Desktop
Scales Editor 2.1

Device dimensions

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