

AS R PLUS Analytical Balances

Innovative design and system solutions for standard-class products



Features

Ergonomic Mechanical Design

Spacious weighing chamber and large open-door clearance allow easy access to the weighing pan and facilitate use of laboratory glassware of various sizes and dimensions. Improved aluminium base of the balance guarantees stability of the weihging system. DUAL-CLICK system facilitates tool-free disassembly and assembly of the weighing chamber. Locating the USB interface at the balance front makes it easier to communicate with peripherals.

Levelling System

Clearly visible levelling device located at the front of the weighing chamber facilitates level control.

Antistatic Weighing Chamber

Weighing chamber panes feature antistatic coating compensating electrostatic charges on the sample and accessories used for mass measurement.

Uncomplicated and Intuitive Operation

Large, easy-to-read LCD display offers not only a clear presentation of the weighing result, but also enables displaying messages related to the drying process as well as pictograms of active functions and working modes. Quick access keys located on the operation panel enable you to run a given function with just one click.

Data Management

AS R PLUS information system is based on operators, products, weighings and tares databases. All saved data can be analysed, exported, imported or exchanged between weighing instruments.

ALIBI Memory

Internal ALIBI memory guarantees safety and automatic record of measurements copies, it also offers possibility to preview, copy and archive data.

Kensington Lock

AS R PLUS balances are equipped with Kensington Lock, which allows to secure the device against theft.

	AS 60/220.R2 PLUS	AS 62.R2 PLUS	AS 82/220.R2 PLUS	AS 120.R2 PLUS
Maximum capacity [Max]	60 g / 220 g	62 g	82 g / 220 g	120 g
Minimum load	1 mg	1 mg	1 mg	1 mg
Readability [d]	0.01 mg / 0.1 mg	0.01 mg	0.01 mg / 0.1 mg	0.01 mg
Verification scale interval [e]	1 mg	1 mg	1 mg	1 mg
Tare range	–220 g	-62 g	–220 g	–120 g
Standard values				
Repeatability(5% Max)*	0.012 mg	0.012 mg	0.012 mg	0.012 mg
Repeatability(Max)*	0.08 mg	0.02 mg	0.08 mg	0.03 mg
Minimum weight (USP)	24 mg	24 mg	24 mg	24 mg
Minimum weight (U=1%, k=2)	2.4 mg	2.4 mg	2.4 mg	2.4 mg
Permissible values				
Repeatability(5% Max)*	0.02 mg	0.018 mg	0.02 mg	0.02 mg
Repeatability(Max)*	0.1 mg	0.03 mg	0.1 mg	0.05 mg
Linearity	± 0.05 mg / ±0.2 mg	± 0.05 mg	± 0.05 mg / ±0.2 mg	± 0.05 mg
Stabilization time***	2 s	2 s	2 s	2 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	Yes
OIML Class	1	I	I	I
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	5	5	5	5
USB-A (interchangeable)	2	2	2	2
JSB-B	1	1	1	1
RS 232	2	2	2	2
Wi-Fi® ∗∗∗∗	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC			
Power consumption	3 W	3 W	3 W	3 W
Operating temperature	+10 ÷ +40 °C			
Atmospheric humidity*****	40% ÷ 80%	40% ÷ 80%	40% ÷ 80%	40% ÷ 80%
Transport and storage temperature	-20 ÷ +50 ℃	-20 ÷ +50 ℃	-20 ÷ +50 ℃	-20 ÷ +50 ℃
Weighing pan dimensions	ø 90 mm open-work ø 85 mm standard (option)******			
Weighing chamber dimensions	190 × 190 × 222 mm			
Weighing device dimensions	351 × 205.5 × 348 mm			
Net weight	7.3 kg	7.3 kg	7.3 kg	7.3 kg
Gross weight	9.3 kg	9.3 kg	9.3 kg	9.3 kg
Packaging dimensions	495 × 400 × 515 mm			

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: $+15 \div +35$ °C

*** stabilization time depends on external conditions and dynamics of placing loads on a pan, determined for FAST profile

**** optional solution on purchase order

***** non-condensing conditions

****** ø 85 mm standard weighing pan on purchase order

Values of parameters provided in Technical Specifications table, have been determined under stable laboratory conditions. Due to ambient conditions impact or/and balance setup, the above parameters may vary for environments other than laboratory.

Maximum conscients [Mar.]	AS 110.R2 PLUS	AS 160.R2 PLUS	AS 220.R2 PLUS	AS 310.R2 PLUS
Maximum capacity [Max]	110 g	160 g	220 g	310 g
Minimum load	10 mg	10 mg	10 mg	10 mg
Readability [d]	0.1 mg	0.1 mg	0.1 mg	0.1 mg
Verification scale interval [e]	1 mg	1 mg	1 mg	1 mg
Tare range	–110 g	–160 g	–220 g	–310 g
Standard values				
Repeatability(5% Max)*	0.06 mg	0.07mg	0.07 mg	0.08 mg
Repeatability(Max)*	0.08 mg	0.08 mg	0.08 mg	0.12 mg
Minimum weight (USP)	120 mg	140 mg	140 mg	160 mg
Minimum weight (U=1%, k=2)	12 mg	14 mg	14 mg	16 mg
Permissible values				
Repeatability(5% Max)*	0.09 mg	0.09 mg	0.09 mg	0.12 mg
Repeatability(Max)*	0.1 mg	0.1 mg	0.1 mg	0.15 mg
Linearity	± 0.2 mg	± 0.2 mg	± 0.2 mg	± 0.2 mg
Stabilization time***	2 s	2 s	2 s	2.5 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	Yes
OIML Class				
Display	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)	LCD (with backlight)
Keypad	14 keys	14 keys	14 keys	14 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	5	5	5	5
USB-A (interchangeable)	2	2	2	2
USB-B	1	1	1	1
RS 232	2	2	2	2
Wi-Fi [®] ****	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Power supply	12 ÷ 16 V DC			
Power consumption	3 W	3 W	3 W	3 W
Operating temperature	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 ℃	+10 ÷ +40 °C
Atmospheric humidity*****				
Transport and storage	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%
temperature	40 ÷ 80% −20 ÷ +50 °C			
Weighing pan dimensions	−20 ÷ +50 °C	-20 ÷ +50 ℃	-20 ÷ +50 ℃	-20 ÷ +50 ℃
Weighing pan dimensions Weighing chamber dimensions	-20 ÷ +50 ℃ ø 100 mm			
Weighing pan dimensions Weighing chamber dimensions Weighing device dimensions	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm
temperature Weighing pan dimensions Weighing chamber dimensions Weighing device dimensions Net weight Gross weight	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm 351 × 205,5 × 348 mm	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm 351 × 205,5 × 348 mm	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm 351 × 205,5 × 348 mm	-20 ÷ +50 ℃ ø 100 mm 190 × 190 × 226 mm 351 × 205,5 × 348 mm

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: +15 ÷ +35 ℃

*** Stabilization time depends on external conditions and dynamics of placing loads on a pan, determined for FAST profile

**** optional solution on purchase order

***** non-condensing conditions

Values of parameters provided in Technical Specifications table, have been determined under stable laboratory conditions. Due to ambient conditions impact or/and balance setup, the above parameters may vary for environments other than laboratory.

Naximum capacity [Max]S20 gMinimu loadReadability (d)0.1 mgVerification scale interval [c]Tare range-S20 gStandard valuesRepeatability(Max)*0.25 mgMinimum weight (USP)160 mgMinimum weight (USP)160 mgMinimum weight (USP)0.12 mgRepeatability(Max)*0.12 mg <th></th> <th>AS 520.R2 PLUS</th>		AS 520.R2 PLUS
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Verification scale interval [e]–Tarcange-20 gnStandar values08 mgRepeatability(SMax)*08 mgRepeatability(SMax)*08 mgMinimu weight (U=Ns, k=.2)16 mgMinimu weight (U=Ns, k=.2)01 mgPermissibues-Repeatability(Max)*04 mgRepeatability(Max)*04 mgRepeatability(Max)*04 mgRepeatability(Max)*04 mgRepeatability(Max)*04 mgStalization time**04 mgStalization time**04 mgAdjustment-Old Class-DisplayLife with scale scal		0.1 mg
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Operating temperature+10 ÷ +40 °CAtmospheric humidity*****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing pan dimensionsØ 100 mmWeighing chamber dimensions190 × 190 × 226 mmWeighing device dimensions351 × 205,5 × 348 mmNet weight7.3 kgGross weight9.3 kg	Power supply	12 ÷ 16 V DC
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Weighing chamber dimensions 190 × 190 × 226 mm Weighing device dimensions 351 × 205,5 × 348 mm Net weight 7.3 kg Gross weight 9.3 kg	Transport and storage temperature	-20 ÷ +50 ℃
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Gross weight 9.3 kg	Weighing device dimensions	351 × 205,5 × 348 mm
	Net weight	7.3 kg
Packaging dimensions 495 × 400 × 515 mm	-	9.3 kg
	Packaging dimensions	495 × 400 × 515 mm

* repeatability is expressed as a standard deviation from 10 weighing cycles

** parameter determined in the following temperature range: $+15 \div +35$ °C

*** Stabilization time depends on external conditions and dynamics of placing loads on a pan, determined for FAST profile

**** optional solution on purchase order

***** non-condensing conditions

Values of parameters provided in Technical Specifications table, have been determined under stable laboratory conditions. Due to ambient conditions impact or/and balance setup, the above parameters may vary for environments other than laboratory.

NameNameNameMaximum capacity (Max)102g200gMinimum load10 mg10 mgReadability (d)0.1 mg0.1 mgVerification scale interval (e)100g-220 gStandart values220 gStandart valuesRepetability (Max)*0.06 mg0.07 mgRepetability (Max)*0.06 mg0.07 mgMinimum weight (U=1%, k=2)12 mg14 mgPermissible valuesRepetability (Max)*0.09 mg0.09 mgRepetability (Max)*0.09 mg0.09 mgRepetability (Max)*0.1 mg0.1 mgLinearity±0.2 mg±0.2 mgStabilizon time***0.1 mg1.0 mgVerificationNoNoOMLNoNoOMLNoNoOML1.0 kg/s1.0 kg/sVerification14 kg/s1.0 kg/sVerification1.0 kg/s1.0 kg/sVerification1.0 kg/s1.0 kg/sVerification1.0 kg/s1.0 kg/sVerification2.0 kg/s1.0 kg/sVerification1.0 kg/s1.0 kg/sVerification class1.0 kg/s1.0 kg/sVerification class2.1 kg/s2.0 kg/sVerification class2.1 kg/s2.1 kg/sVerification class1.0 kg/s3.0 kg/sVerification class3.0 kg/s3.0 kg/sVerification class1.0 kg/s3.0 kg/sVerification cl		AS 120.R1 PLUS	AS 220.R1 PLUS
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Minimum weight (USP)120 mg140 mgMinimum weight (U=1%, k=2)12 mg14 mgPermissible valuesRepeatability(5% Max)*0.09 mg0.09 mgRepeatability(Max)*0.10 mg0.09 mgRepeatability(Max)*0.10 mg0.09 mgStabilization time***2.02 mg2.02 mgAdjustmentExternalExternalVerificationNoNoOlf LGasDisplayLGD (with backlight)LGW (with backlight)Keypad14 keys14 keysProtection class9432USB-B4 (niterchangeable)2.10 Ling/m12.10 Ling/mRestability1.21 Ling/m12.10 Ling/mOwer osumption9.21 Ling/m12.10 Ling/mPower osumption30.11 Ling/m30.11 Ling/mPower osumption30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mPower osumption30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mPower osumption30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mRung of the	Repeatability(5% Max)*	0.06 mg	0.07 mg
Minimum weight (USP)120 mg140 mgMinimum weight (U=1%, k=2)12 mg14 mgPermissible valuesRepeatability(5% Max)*0.09 mg0.09 mgRepeatability(Max)*0.10 mg0.09 mgRepeatability(Max)*0.10 mg0.09 mgStabilization time***2.02 mg2.02 mgAdjustmentExternalExternalVerificationNoNoOlf LGasDisplayLGD (with backlight)LGW (with backlight)Keypad14 keys14 keysProtection class9432USB-B4 (niterchangeable)2.10 Ling/m12.10 Ling/mRestability1.21 Ling/m12.10 Ling/mOwer osumption9.21 Ling/m12.10 Ling/mPower osumption30.11 Ling/m30.11 Ling/mPower osumption30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mPower osumption30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mPower osumption30.10 mm30.11 Ling/mRung of the ministry30.10 mm30.11 Ling/mRung of the	Repeatability(Max)*	0.08 mg	0.08 mg
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Permissible valuesRepeatability(5% Max)*0.09 mg0.09 mgRepeatability(Max)*0.1 mg0.1 mgLinearity±0.2 mg±0.2 mgStabilization time***2 s2 sAdjustmentExternalExternalVerificationNoNoOIML ClassDisplayLCD (with backlight)CD (with backlight)Keypad14 keys14 keysProtection class14 keys2USB-A (interchangeable)22222Wi-Fi****802.11 b/g/n802.11 b/g/nPower supply1.2 + 16 VDC2Power supply1.2 + 16 VDC3WOperating temperature+10 + 40°C4.9 + 40°CAtmospher humidity*****40% + 80%40 + 80%Winghing and timensions100 mm010 mmWeighing nadimensions190 × 190 × 222 mm90 × 190 × 205 × 348 mmKetweight3,3 kg3.3 kg	-	-	
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Stabilization time***2 s2 sAdjustmentExternalExternalAdjustmentExternalExternalVerificationNoNoOlML ClassDisplayLCD (with backlight)LCD (with backlight)Keypad14 keys14 keysProtection classP43P43Databases55USB-A (interchangeable)22VB-B11R5 232202Power supply12 + 16 VDC2 + 16 VDCPower supply10 + 40°C3WOperating temperature40% + 80%40 + 80%Atmospherichumidity****000 mm100 mmWiefling and imensions10 × 100 × 220 mm31 × 205 × 348 mmWiefling device dimensions51 × 205 × 348 mm51 × 205 × 348 mmKengigt31 × 205 × 348 mm31 × 205 × 348 mmKengigt93 kg93 kg	Repeatability(Max)*	0.1 mg	0.1 mg
AdjustmentExtendExtendExtendVerificationNoNoOlML ClassDisplayCD (with backlight)CD (with backlight)Keypad14 keys14 keysProtection classIP43I4 keysDabbases55USB-A (interchangeable)22VB-B 322VB-B 422VB-B 422VB-B 422VB-B 422VB-B 522VB-B 622VB-B 722VB-B 7 <th>Linearity</th> <th>± 0.2 mg</th> <th>± 0.2 mg</th>	Linearity	± 0.2 mg	± 0.2 mg
VerificationNoNoOIML ClassDisplayLCD (with backlight)LCD (with backlight)Keypad14 keys14 keysProtection classP43P43Dabases55USB-A (interchangeable)22VSB-B (interchangeable)11R5 23222Pover consumption2021 b/g/nPower supply12 + 16 V DC20 + 10 + 40 °CPower consumption3W3WOperating temperature-20 + + 50 °C-20 + + 50 °CMispling pandimensions100 mm-20 + + 50 °CWeighing chamber dimensions19 × 190 × 222 mm90 × 190 × 222 mmNeighing chamber dimensions351 × 205 × 348 mm351 × 205 × 348 mmNetweight7.3 kg3.8 kg3.8 kg	Stabilization time***	2 s	2 s
OMLClass-DMLClass-DisplayLCD (with backlight)Keypad14 keysProtection classP43Dabases5USB-A (interchangeable)2USB-B (interchangeable)2VSF-Fi*****802.11 b/g/nPower supply12 f16 VDCPower consumption3WOperating temperature-0+ +40°CAtmospherichumidity*****-00+ +50°CWeighing and imensions10× 109× 222 mmWeighing device dimensions31 × 2055 × 348 mmNetweight3.8g31 × 2055 × 348 mmGross weight9.3 kg9.3 kg	Adjustment	External	External
DisplayLCD (with backlight)LCD (with backlight)Keypad14 keys14 keysProtection classIP 43IP 43Databases55Databases22USB-A (niterchangeable)21USB-B (1)22Wi-Fi*****802.11 b/g/n20.11 b/g/nPower supply12 + 16 VDC22 + 16 VDCPower consumption3W3WOperating temperature40% + 80%40 + 80%Vielghing pandimensions100 × 100 ×	Verification	No	No
Keypad14 keys14 keysProtection classIP 43IP 43Databases55USB-A (interchangeable)22USB-B11K 23222Wi-Fi*****802.11 b/g/n802.11 b/g/nPower supply12 ÷ 16 V DC20Power consumption3W3WOperating temperature410 ÷ 40°C40% ÷ 80%Vielghing pandimensions100 mm-00 ÷ 50°CWieghing chamber dimensions190 × 190 × 222 mm90 × 190 × 225 × 348 mmNet weight73 kg33 kg	OIML Class	_	_
Protection class IP43 IP43 Databases 5 5 Databases 5 5 USB-A (interchangeable) 2 2 USB-B 1 1 RS 232 2 2 Wi-Fi***** 802.11 b/g/n 802.11 b/g/n Power supply 12÷16 V DC 12÷16 V DC Power consumption 3W 3W Operating temperature +10÷+40 °C +10÷+40 °C Atmospherichumidity***** 40% 80% 40÷ 80% Weighing pan dimensions 910 mm 910 mm Weighing chamber dimensions 10× 190 × 222 mm 910 × 190 × 226 mm Weighing device dimensions 31 × 205.5 × 348 mm 51 × 205.5 × 348 mm Net weight 7.3 kg 7.3 kg 31 kg	Display	LCD (with backlight)	LCD (with backlight)
Databases 5 Databases 5 USB-A (interchangeable) 2 USB-B 1 VSB-B 1 RS 232 2 Vi-Fi**** 802.11 b/g/n Power supply 12 ± 16 V D C Power supply 12 ± 16 V D C Power consumption 3W Operating temperature 10 ± 40 °C Vi-Fi0***** 40% + 80% Atmospherichumidity***** 40% + 80% Vieghing pan dimensions 100 mm Vieghing chamber dimensions 90 × 190 × 220 mm Vieghing device dimensions 51 × 205 × 348 mm Net weight 73 kg Gross weight 93 kg	Keypad	14 keys	14 keys
USB-A (interchangeable) 2 2 USB-B 1 1 RS 232 2 2 Wi-Fi***** 802.11 b/g/n 802.11 b/g/n Power supply 12 ÷ 16 V DC 12 ÷ 16 V DC Power consumption 3W 3W Operating temperature +10 ÷ +40 °C +10 ÷ +40 °C Atmospheric humidity***** 40% ÷ 80% 40 ÷ 80% Yieighing pan dimensions >010 mm -20 ÷ +50 °C Weighing device dimensions 10 × 190 × 222 mm 90 × 190 × 226 mm Weighing device dimensions 351 × 2055 × 348 mm 351 × 2055 × 348 mm Ret weight 7.3 kg 7.3 kg	Protection class	IP 43	IP 43
USB-B 1 RS 232 2 Vi-Fi**** 802.11 b/g/n 802.11 b/g/n Power supply 12 ± 16 V DC 12 ± 16 V DC Power consumption 3W 3W Operating temperature 40 ± 40 °C 40 ± 40 °C Atmospherichumidity***** 40% ± 80% 40 ± 80% Vieighing pan dimensions 0 10 mm 90 × 100 × 1	Databases	5	5
RS 23222Wi-Fi®****802.11 b/g/n802.11 b/g/nPower supply10÷16 VDC10÷16 VDCPower consumption3 W3 WOperating temperature+10÷440 °C+10÷440 °CAtmospheric humidity*****40% ÷ 80%40÷80%Transport and storage temperature-20÷+50 °C-20÷+50 °CWeighing hamber dimensions10 × 100 × 222 mm90 × 100 × 202 mmWeighing device dimensions51 × 205.5 × 348 mm51 × 205.5 × 348 mmNet weight9.3 kg9.3 kg9.3 kg	USB-A (interchangeable)	2	2
Wi-Fi***** 802.11 b/g/n 802.11 b/g/n Power supply 12 ÷ 16 V DC 12 ÷ 16 V DC Power consumption 3W 3W Operating temperature +10 ÷ +40 °C +10 ÷ +40 °C Atmospheric humidity***** 40% ÷ 80% 40 ÷ 80% Transport and storage temperature -20 ÷ +50 °C -20 ÷ +50 °C Weighing chamber dimensions 910 nm 910 nm Weighing device dimensions 190 × 190 × 222 nm 90 × 190 × 226 nm Net weight 31 × 205.5 × 348 nm 51 × 205.5 × 348 nm So straiget 93 kg 93 kg	USB-B	1	1
Power supply 12 ÷ 16 V DC 12 ÷ 16 V DC Power consumption 3W 3W Operating temperature +10 ÷ +40 °C +10 ÷ +40 °C Atmospheric humidity***** 40% ÷ 80% 40 ÷ 80% Transport and storage temperature -20 ÷ +50 °C -20 ÷ +50 °C Weighing pan dimensions 0 100 mm 0 100 mm Weighing chamber dimensions 190 × 190 × 222 mm 190 × 190 × 226 mm Weighing device dimensions 351 × 205.5 × 348 mm 351 × 205.5 × 348 mm Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	RS 232	2	2
Power consumption 3W 3W Operating temperature +10÷+40 °C +10÷+40 °C Atmospheric humidity***** 40%÷80% 40÷80% Transport and storage temperature -20÷+50 °C -20÷+50 °C Weighing pan dimensions 010 mm 0100 mm Weighing chamber dimensions 910×190×222 mm 910×190×226 mm Weighing device dimensions 51×205.5×348 mm 51×205.5×348 mm Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	Wi-Fi® ****	802.11 b/g/n	802.11 b/g/n
Operating temperature +10 ÷ +40 °C +10 ÷ +40 °C Atmospheric humidity***** 40% ÷ 80% 40 ÷ 80% Transport and storage temperature -20 ÷ +50 °C -20 ÷ +50 °C Weighing pan dimensions 6100 mm 6100 mm Weighing chamber dimensions 190 × 190 × 222 mm 90 × 190 × 226 mm Weighing device dimensions 51 × 205.5 × 348 mm 51 × 205.5 × 348 mm Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	Power supply	12 ÷ 16 V DC	12 ÷ 16 V DC
Atmospheric humidity***** 40% ÷ 80% 40 ÷ 80% Transport and storage temperature -20 ÷ +50 °C -20 ÷ +50 °C Weighing pan dimensions 010 mm 0100 mm Weighing chamber dimensions 190 × 190 × 222 mm 190 × 190 × 226 mm Weighing device dimensions 351 × 205.5 × 348 mm 351 × 205.5 × 348 mm Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	Power consumption	3 W	3 W
Transport and storage temperature -20 ÷ +50 °C -20 ÷ +50 °C Weighing pan dimensions Ø 100 mm Ø 100 mm Weighing chamber dimensions 190 × 190 × 222 mm 190 × 190 × 226 mm Weighing device dimensions 351 × 205.5 × 348 mm 351 × 205.5 × 348 mm Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	Operating temperature	+10 ÷ +40 ℃	+10 ÷ +40 °C
Weighing pan dimensions Ø 100 mm Ø 100 mm Weighing chamber dimensions 190 × 190 × 222 mm 190 × 190 × 226 mm Weighing device dimensions 351 × 205.5 × 348 mm 351 × 205.5 × 348 mm Net weight 7.3 kg 7.3 kg 9.3 kg	Atmospheric humidity*****	40% ÷ 80%	40 ÷ 80%
Weighing chamber dimensions 190×190×222 mm 190×190×226 mm Weighing device dimensions 351×205.5×348 mm 351×205.5×348 mm Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	Transport and storage temperature	−20 ÷ +50 °C	-20 ÷ +50 ℃
Weighing device dimensions 351 × 205.5 × 348 mm 351 × 205.5 × 348 mm Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	Weighing pan dimensions	ø 100 mm	ø 100 mm
Net weight 7.3 kg 7.3 kg Gross weight 9.3 kg 9.3 kg	Weighing chamber dimensions	190 × 190 × 222 mm	190 × 190 × 226 mm
Gross weight 9.3 kg 9.3 kg	Weighing device dimensions	351 × 205.5 × 348 mm	351 × 205.5 × 348 mm
• • •	Net weight	7.3 kg	7.3 kg
Packaging dimensions 495 × 400 × 515 mm 495 × 400 × 515 mm	Gross weight	9.3 kg	9.3 kg
	Packaging dimensions	495 × 400 × 515 mm	495 × 400 × 515 mm

¥ repeatability is expressed as a standard deviation from 10 weighing cycles **

parameter determined in the following temperature range: +15 \div +35 $^\circ\mathrm{C}$

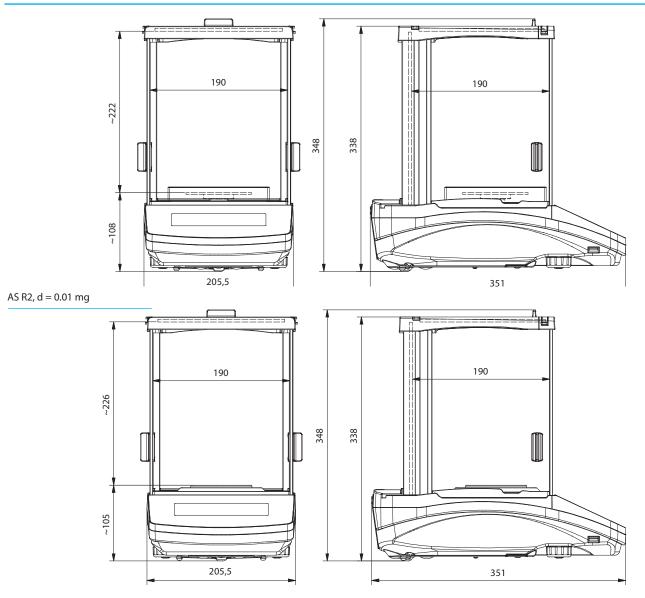
*** Stabilization time depends on external conditions and dynamics of placing loads on a pan, determined for FAST profile

**** optional solution on purchase order

**** non-condensing conditions

Values of parameters provided in Technical Specifications table, have been determined under stable laboratory conditions. Due to ambient conditions impact or/and balance setup, the above parameters may vary for environments other than laboratory.

Dimensions



AS R2, AS R1 d = 0.1 mg

Accessories

Weighing Tables

- granite antivibration table
- antivibration tables for laboratory balances
- professional weighing table

Professional Weighing

- laboratory ware holders
- KIT 85 density determination kit
- under-hook weighing rack

Ambient Conditions

• DJ-04 anti-static ioniser

Peripheral Devices

- label printer
- receipt printer
- Epson dot matrix printer
- barcode scanners
- WD-6 LCD display

Cables, Converters

- P0108: RS 232 cable (balance computer)
- P0151: RS 232 cable (balance Epson printer)
- USB cable type A-B
- AP2-1 power loop output

Draft shields and anti-draft chambers

• protective cover for R series indicator

Electrical accessories

- ZR-02 power supply with battery
- panel box

Dedicated Software

R-LAB

- collecting measurements
- carrying out statistical analysis of measurements
- customized graphs and reports

E2R Weighing Records

- complete, automated databases synchronization
- fully supported processes of labelling and parts counting
- record of weighings, weighings archiving
- basic and advanced (with graphs) reports

Alibi Reader

- readout of data saved to Alibi memory
- export of data saved to Alibi memory
- data filtering and reports generating
- saving ALIBI database to CSV file

RAD KEY

• Establishing cooperation between a weighing instrument and a computer

R.Barcode

• The basic function software is presentation of the data sent by barcode scanners connected to PC via USB or RS232

Radwag Development Studio

- presentation of functions (and subfunctions) of communication protocol (Common Communication Protocol)
- possibility of connection with weighing equipment on which each function is carried out,
- library with mass control, contained within the development environment
- complete documentation of the communication protocol
- set of user manuals for different solutions addressed for programmers employed in companies using RADWAG-manufactured weighing equipment

RADWAG Connect

- establishing communication with all balances, scales and weighing
- modules using Common Communication Protocol
- communication via local network,
- support of basic functions
- auto searching for devices
- connecting with few devices simultaneously, swapping between them
- clear list of connected platforms
- record of measurements in the program,
- export of carried out measurements to CSV file,
- work performed using freely selected device with Windows 10
 operating system

LabView Driver

• operation of RADWAG balances in LabView environment

R Panel

- operator access to all keys and functions that are to be found on an operation panel
- communication via COM1, COM2 or USB,
- compatible with: Windows Vista, 7, 8, 8.1, 10, Server 2008R2, 2012, 2016.