

AS X2 PLUS Analytical Balances

Innovative design and system solutions for advanced-class products



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

LevelSENSING System

The in-built sensors measure tilt and display graphic message on the weighing device screen. Levelling system facilitates adjustment, controls the level state, and informs about level deviations, all this in accordance with GLP and GMP.

SMARTLab

AS X2 PLUS balances feature numerous functions supporting and supervising mass measurement in laboratory, facilitating operation and limiting the risk of "human factor" errors, e.g. automatic adjustment, data control, ALIBI memory, automatic reports and ambient conditions monitoring

Antistatic Weighing Chamber

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

*Antistatic coating has been applied in balances with the readability of d=0.01mg $\,$

Display Customization

Functions displayed on the colour 5" touch screen can be customized to suit carried out process and user's needs. Flexible configuration of buttons, labels and text fields is also a great advantage.

Kensington Lock

AS X2 PLUS balances are equipped with Kensington Lock, which allows to secure the device against theft.

Technical Specifications

	AS 60/220.X2 PLUS	AS 62.X2 PLUS	AS 82/220.X2 PLUS	AS 120.X2 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	0.01 mg	0.012 mg	0.012 mg
Repeatability(Max)*	0.07 mg	0.017 mg	0.07 mg	0.03 mg
Minimum weight (USP)	24 mg	20 mg	24 mg	24 mg
Minimum weight (U=1%, k=2)	2.4 mg	2 mg	2.4 mg	2.4 mg
Permissible values				
Repeatability(5% Max)*	0.015 mg	0.012 mg	0.015 mg	0.015 mg
Repeatability(Max)*	0.1 mg	0.025 mg	0.1 mg	0.04 mg
Linearity	± 0.05 mg / ±0.2 mg	± 0.05 mg	± 0.05 mg / ±0.2 mg	± 0.07 mg
Stabilization time***	2 s	2 s	2 s	2 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	Yes
OIML Class	1	1	I	1
Display	5" capacitive colour touch screen			
Keypad	6 keys	6 keys	6 keys	6 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	7	7	7	7
Touch-free operation	2 programmable proximity sensors			
USB-A	1	1	1	1
USB-B	1	1	1	1
RS 232	1	1	1	1
DB9	Tare and Print External Buttons			
Wi-Fi®	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Ethernet	10 / 100 Mbit			
Power supply	12 ÷ 16 V DC			
Power consumption	4 W	4 W	4 W	4 W
Operating temperature	+10 ÷ +40 °C			
Atmospheric humidity****	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%	40 ÷ 80%
Transport and storage temperature	−20 ÷ +50 °C			
Weighing pan dimensions	ø 90 mm open-work ø 85 mm standard (option)*****			
Weighing chamber dimensions	160 × 168 × 223 mm			
Weighing device dimensions	333 × 206 × 355 mm			
Net weight	5.3 kg	5.3 kg	5.3 kg	5,3 kg
Gross weight	7.3 kg	7.3 kg	7.3 kg	7,3 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

**** 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.

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

Technical Specifications

	AS 110.X2 PLUS	AS 160.X2 PLUS	AS 220.X2 PLUS	AS 310.X2 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)*	0.05 mg	0,06 mg	0,06 mg	0,07 mg
Repeatability(Max)*	0.06 mg	0,07 mg	0,07 mg	0,1 mg
Minimum weight (USP)	100 mg	120 mg	120 mg	140 mg
Minimum weight (U=1%, k=2)	10 mg	12 mg	12 mg	14 mg
Permissible values				
Repeatability(5% Max)*	0.07 mg	0.08mg	0.08 mg	0.1 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	± 0.3 mg
Stabilization time***	2 s	2 s	2 s	2.5 s
Adjustment	internal	internal	internal	internal
Verification	Yes	Yes	Yes	Yes
OIML Class	1	1	1	1
Display	5" capacitive colour touch screen			
Keypad	6 keys	6 keys	6 keys	6 keys
Protection class	IP 43	IP 43	IP 43	IP 43
Databases	7	7	7	7
Touch-free operation	2 programmable proximity sensors			
USB-A	1	1	1	1
USB-B	1	1	1	1
RS 232	1	1	1	1
DB9	Tare and Print External Buttons			
Wi-Fi®	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n	802.11 b/g/n
Ethernet	10 / 100 Mbit			
Power supply	12 ÷ 16 V DC			
Power consumption	4 W	4 W	4 W	4 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 °C
Weighing pan dimensions	ø 100 mm	ø 100 mm	ø 100 mm	ø 100 mm
Weighing chamber dimensions	160 × 168 × 227 mm			
Weighing device dimensions	333 × 206 × 355 mm			
Net weight	5.3 kg	5.3 kg	5.3 kg	5.3 kg
Gross weight	7.3 kg	7.3 kg	7.3 kg	7.3 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 $^\circ C$ *

**

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

**** 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.

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Technical Specifications

Maximun capacity (Max)520 gMinimun load–Reeadability (d]0.1 mgReeadability (d]-Standard values-Repetability (SS Max)*007 mgRepetability (SS Max)*0.7 mgRepetability (SS Max)*0.7 mgRepetability (Max)*0.7 mgMinimum weight (U=1%, k=2)14 mgPermissible values-Repetability (Max)*0.1 mgRepetability (Max)*1.0 mgRepetability (Max)*1.0 mgRepetability (Max)*-Repetability (Max)*- <td< th=""><th></th><th>AS 520.X2 PLUS</th></td<>		AS 520.X2 PLUS
Readability (d)0.1mgVerification scale interval [c]-Tare range-50.0 gStandard values0.07 mgRepeatability (Msx)*0.07 mgRepeatability (Msx)*0.0 mgMinimu weight (USP)140 mgWinimu weight (USP)1.0 mgWinimu weight (USP)0.1 mgRepeatability (Msx)*0.3 mgRepeatability (Msx)*0.3 mgRepeatability (Msx)*0.3 mgStabilization time**2.5 sAdjustmentinternalLinearity5.5 capactive colour touch screenVerification-OIML Class7Pretection class1.4 mgDatabases7Touch-free operation2.5 programmable proximity sensorsUSB-81.4 mgVerification-Databases7Touch-free operation2.1 mg/mmUSB-81.4 mgStabilization screen2.1 mg/mmWerl?2.1 mg/mmStabilization times3.1 mgWerl?3.2 mg/mmDatabases1.4 mgStabilization times3.1 mgStabilization times3.1 mgStabilization times3.1 mgWerl?3.2 mgStabilization times3.1 mg <td< th=""><th>Maximum capacity [Max]</th><th>520 g</th></td<>	Maximum capacity [Max]	520 g
Verification scale interval [e]	Minimum load	_
Tare range-520 gStandar values0.07 mgRepeatability(Max)*0.27 mgMinimun weight (USP)140 mgMinimun weight (USP)14 mgPermissible values0.1 mgRepeatability(Max)*0.3 mgRepeatability(S* Max)*0.1 mgRepeatability(S* Max)*0.3 mgAlgustment1.0 emailAlgustment2.5 sAdjustmentinternalVerification time**6 keysVerification classDisplay6 fapacitive colour touch screenKeypad1Databases7Touch-free operation2 porgammable proximity sensorsUSB-81Stabilization time***1AG1Stabilized and print External ButtomsWerfif***802.11 k/g/nPower osumption40 + 80%Atmospheric humidity****0.4 k8% >227 mmWerfing temperature-+ 40 * CAtmospheric humidityWeighing chamber dimensions610 rumWeighing chamber dimensions610 rumWeighing chamber dimensions33 x 206 × 355 mmWeighing chamber dimensions53 kg Ac	Readability [d]	0.1 mg
Standard valuesRepeatability(Max)*0.07 mgRepeatability(Max)*0.2 mgMinimu weight (USPs)14 mgMinimu weight (USPs)0.1 mgPermissib values0.1 mgRepeatability(Max)*0.3 mgRepeatability(Max)*2.5 sRepeatability(Max)*1.1 memalVerification time***2.5 sAdjustmentInternalVerification time***6 keysDisplay5 capacitive colour touch screenOther Colour touch screen6 keysRepeatability Salues1Stabilization time1.2 manuals (Salues)Vertification dass1Vertification dass2.1 keysStabilization time1.2 more colour touch screenStabilization time1.2 more colour touch screen <td< th=""><td>Verification scale interval [e]</td><td>_</td></td<>	Verification scale interval [e]	_
Repeatability(Max)*0.07 mgRepeatability(Max)*0.2 mgMinimum weight (USP)140 mgMinimum weight (USP)14 mgPermissible values0.1 mgRepeatability(S% Max)*0.1 mgRepeatability(Max)*0.3 mgConstruction2.5 sAdjustmentinternalVerification-Other Construction-Other Construction- <trr>Other Construc</trr>	Tare range	-520 g
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Minimu weight (U=1%, k=2)14 mgPermissible valuesPermissible valuesRepeatability(Max)*0.1 mgRepeatability(Max)*0.3 mgLinearity±0.4 mgStabilization time***25 sAdjustment-Olfa Class-Olfa Class-Olfa Classscapactive colour touch screenDisplayscapactive colour touch screenPortection class1943Portection class2 programmable proximity sensorsUSB-B1Stabilization time***2011 b/g/nUSB-B101 LinearityPortection class101 LinearityUSB-B101 LinearityUSB-B101 LinearityStabilization time92 norgammable proximity sensorsUSB-B101 LinearityStabilization time92 norgammable proximityStabiliz	Repeatability(Max)*	0.2 mg
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Repeatability(%Max)*0.1 mgRepeatability(Max)*0.3 mgBabelization time***2.0 4 mgStabilization time***2.5 sAdjustmentinternalVerification-OIML Class-Display5" capacitive colour touch screenRepeatability(Max)6 keysDatabase7Database7Stabilization time2 programmable proximity sensorsUSB-A1Stabilization time1Stabilization	Minimum weight (U=1%, k=2)	14 mg
Repeatability(Max)*0.3 mgLinearity±0.4 mgStabilization time***25 sAdjustmentinternalVerification-OlML Class-DisplayS' capacitive colour touch screenKeypad6 keysProtection class19 43Databases2 programmable proximity sensorsUSB-A1USB-R1USB-R1Stagation componentiation10 (Mit Class)Power sourgy12 (Sing)Power sourgy12 (Sing)Power sourgy12 (Sing)Power sourgy12 (Sing)Power sourghtion4WOperating temperature40 (Sing)Rasperic tumityterestors20 (Sing)Wiefing and mensions100 mmWeighing device dimensions33 X206 X35 mmWeighing device dimensions33 X206 X35 mmNet weight5 kg	Permissible values	
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Stabilization time***2.5 sAdjustmentinternalVerification—OIML Class—Display5" capacitive colour touch screenKeypad6 keysProtection classIP 43Databases7Touch-free operation2 programmable proximity sensorsUSB-A1USB-B1Stage 11 br/g/nStage 11 br/g/nKhernet10/100 MbhPower supply12 + 16 V DCPower supply12 + 16 V DCPower supply100 mmVerighing pandimensions900 mmWeighing pandimensions100 mmWeighing device dimensions333 × 208 × 355 mmNet weight53 kgGross weight53 kg	Repeatability(Max)*	0.3 mg
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Protection classIP 43Databases7Touch-free operation2 programmable proximity sensorsUSB-A1USB-B1RS 2321DB9Tare and Print External ButtonsWi-Fi*802.11 b/g/nEthernet10/ 100 MbitPower supply12 ÷ 16 V DCPower consumption4WOperating temperature-00 ÷ 400 °CAtmospheric humidity****00 mmWiejdning pan dimensions0 100 mmWiejdning device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Display	5" capacitive colour touch screen
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Touch-free operation2 programmable proximity sensorsUSB-A1USB-B1RS 2321DB9Tare and Print External ButtonsWi-Fi*802.11 b/g/nEthernet10 / 100 MbitPower onsumption4WOperating temperature+10 ÷ +40 °CAtmospheric humidity****40 ÷ 80%Wieghing and dimensions60 × 168 × 227 mmWeighing chamber dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Protection class	IP 43
USB-A1USB-B1RS 2321DB9Tare and Print External ButtonsWi-Fi*802.11 b/g/nEthernet10/100 MbitPower supply12 ÷ 16 V DCPower consumption4WOperating temperature+10 ÷ +40 °CAtmospheric humidity****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing pan dimensions60 N mWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Databases	7
USB-B1RS 2321DB9Tare and Print External ButtonsWi-Fi®802.11 b/g/nEthernet10 / 100 MbitPower supply12 ÷ 16 V DCPower consumption4WOperating temperature+10 ÷ 440 °CAtmospheric humidity****40 ÷ 80%Veighing pan dimensions9 00 mmWeighing device dimensions160 × 168 × 227 mmNet weight333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Touch-free operation	2 programmable proximity sensors
RS 2321DB9Tare and Print External ButtonsWi-Fi°802.11 b/g/nEthernet10/100 MbitPower supply12 ÷ 16 V DCPower consumption4WOperating temperature40 ÷ 80%Atmospheric humidity****0 = 02 ÷ 50 °CWieghing pan dimensions610 × 168 × 227 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	USB-A	1
DB9Tare and Print External ButtonsDB9Tare and Print External ButtonsWi-Fi®802.11 b/g/nEthernet10 / 100 MbitPower supply12 ÷ 16 V DCPower consumption4WOperating temperature+10 ÷ +40 °CAtmospheric humidity****-20 ÷ +50 °CWeighing pan dimensions0100 mmWeighing chamber dimensions160 × 168 × 227 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	USB-B	1
Wi-Fi®802.11 b/g/nEthernet10 / 100 MbitPower supply12 ÷ 16 V DCPower consumption4WOperating temperature+10 ÷ +40 °CAtmospheric humidity****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing chamber dimensions160 × 168 × 227 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	RS 232	1
Ethernet10 / 100 MbitPower supply12 ÷ 16 V DCPower consumption4WOperating temperature+10 ÷ +40 °CAtmospheric humidity****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing pan dimensionsØ 100 mmWeighing chamber dimensions160 × 168 × 227 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	DB9	Tare and Print External Buttons
Power supply12 ÷ 16 V DCPower consumption4 WOperating temperature+10 ÷ +40 °CAtmospheric humidity****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing pan dimensionsØ 100 mmWeighing chamber dimensions333 × 206 × 355 mmWeighting device dimensionsS.3 kgNet weight7.3 kg	Wi-Fi®	802.11 b/g/n
Power consumption4WOperating temperature+10 ÷ +40 °CAtmospheric humidity****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing pan dimensions0 100 mmWeighing chamber dimensions33 × 206 × 355 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Ethernet	10 / 100 Mbit
Operating temperature+10 ÷ +40 °CAtmospheric humidity****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing pan dimensionsØ 100 mmWeighing chamber dimensions160 × 168 × 227 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Power supply	12 ÷ 16 V DC
Atmospheric humidity****40 ÷ 80%Transport and storage temperature-20 ÷ +50 °CWeighing pan dimensionsØ 100 mmWeighing chamber dimensions160 × 168 × 227 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Power consumption	4 W
Transport and storage temperature $-20 \div +50 ^\circ C$ Weighing pan dimensions $\emptyset 100 mm$ Weighing chamber dimensions $160 \times 168 \times 227 mm$ Weighing device dimensions $333 \times 206 \times 355 mm$ Net weight $5.3 kg$ Gross weight $7.3 kg$	Operating temperature	+10 ÷ +40 °C
Weighing pan dimensionsØ 100 mmWeighing chamber dimensions160 × 168 × 227 mmWeighing device dimensions333 × 206 × 355 mmNet weight5.3 kgGross weight7.3 kg	Atmospheric humidity****	40 ÷ 80%
Weighing chamber dimensions 160 × 168 × 227 mm Weighing device dimensions 333 × 206 × 355 mm Net weight 5.3 kg Gross weight 7.3 kg	Transport and storage temperature	−20 ÷ +50 °C
Weighing device dimensions 333 × 206 × 355 mm Net weight 5.3 kg Gross weight 7.3 kg	Weighing pan dimensions	ø 100 mm
Net weight 5.3 kg Gross weight 7.3 kg	Weighing chamber dimensions	160 × 168 × 227 mm
Gross weight 7.3 kg	Weighing device dimensions	333 × 206 × 355 mm
	Net weight	5.3 kg
Packaging dimensions 495 × 400 × 515 mm	Gross weight	7.3 kg
	Packaging dimensions	495 × 400 × 515 mm

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

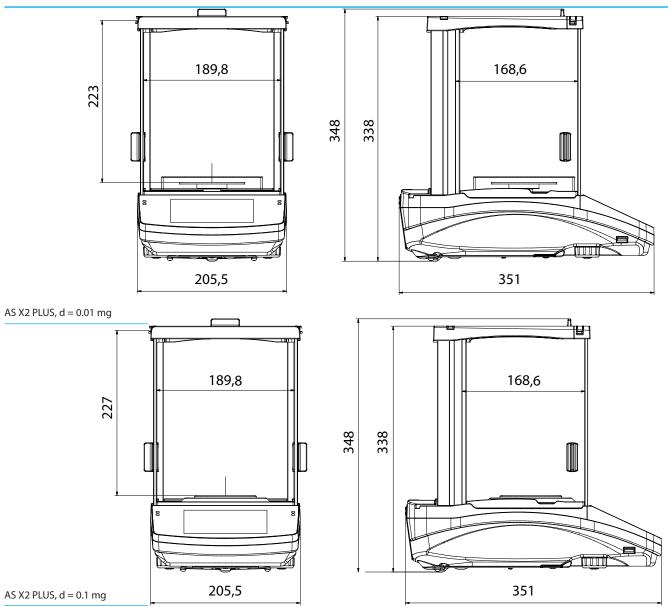
** parameter determined in the following temperature range: $+15 \div +35$ °C

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

**** non-condensing conditions

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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

Draft shields and anti-draft chambers

• protective cover for X2 series indicator

Electrical Accessories

• ZR-02 power supply with battery

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

R.Barcode

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

RAD KEY

• Establishing cooperation between a weighing instrument and a computer

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