



X2 series balances

INNOVATIVE FUNCTIONAL SOLUTIONS

X2 Synergy

The X2 series embodies synergy between conventional solutions characteristic for high quality balances, and technology intended mainly for professional standards.

Combination of the above qualities provides you with a high-tech instrument offering pinpoint accuracy and maximum comfort of operation for price typical of lower class devices.

- 5" colour capacitive touchscreen
- Display customization with use of widgets
- Multilingual, interactive menu
- Sensors for touch-free operation
- Conformity with GLP and GMP regulations
- Dynamically controlled sample weight (bargraph)
- Statistics, formulas, reports and printouts
- Unlimited communication possibilities
- Alibi memory with record of measurements
- Complex databases
- Maximum comfort of operation

Home screen

- Home screen button
- B Exit (returning to the previous screen) button
- C Tarring button
- On/Off switch button
- Enter / Print button
- Ceroing button
- **G** Status bar (working mode, metrologically important parameters)
- () Measurement indication area
- Information desktop
- Quick access toolbar for direct operation of balance functions and settings
- Current working mode setup
- Sensors for touch-free operation







AS.X2 analytical balances

up to 310 g from 0,01 mg Weighing pan: ø 70 or ø 85 mm

d:



PS.X2 precision balances Max: d: Weighing pan:

up to 1000 g from 1 mg 128 × 128 mm



PS.X2 precision balances Max: up to 10 kg from 10 mg d: Weighing pan: $195 \times 195 \,\mathrm{mm}$



APP.X2 precision balances

up to 35 kg from 0,01 g Weighing pan: $348 \times 260 \text{ mm}$

d:

The X2 series as standard for quality

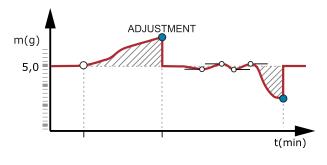


Accuracy for any temperature

Accuracy is one of the most significant parameters influencing metrological characteristics of the weighing device. Production and control system designed for X2 balances consists in monitoring and adjustment of accuracy obtained for changeable temperatures. With minimized deviation of indication, the X2 series ensures great measurement stability for wide temperature range.

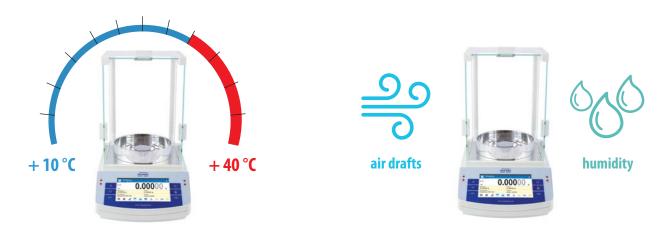
Accuracy of each weighing indication

X2 series balances with an automatic adjustment system, using an internal adjustment weight, guarantee reliable measurement. Regardless of ambient conditions, the system provides effective elimination of any balance sensitivity deviations.



Accuracy for any ambient

Multi-shield mechanical design of X2 series balances offers effective protection against ambient conditions influence. With such design, the X2 series stands for fast and reliable measurement of either light or heavy loads, even when ambient conditions pose strong challenge.



Quality begins with precision



Optimization of X2 structural components provides measurements repeatability – the pivotal parameter for several analytical processes.

Speed operation time optimization



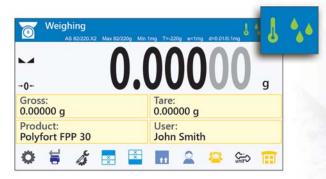
The X2 series is an effect of both, measuring systems development, and progress achieved when it comes to measuring signals monitoring methodology. With our X2 series balances you are offered solutions that guarantee full range of settings providing the right sensitivity for measurement performed within seconds.

WOAB

OBBB To the

Ambient conditions monitoring

Information on fluctuating ambient conditions is essential in measuring devices characterized with high resolution. To your comfort, X2 series balances have been equipped with system, signalling dynamics of temperature changes, by a dedicated pictogram. You shall find it especially useful while installing your device (acclimatization period), and when the working environment shows its changeable nature.



Redefined functionality

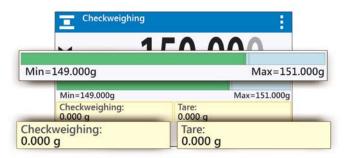
Buttons customization

Customized buttons facilitate selection of weighing units, packaging, customers, variable tare values at ease and thus they add to fast and solid performance of the weighing process. User-designed buttons set, tailored to the user's needs, can be assigned to a particular working mode, hence your balance functionality is considerably boosted.



Labels design your own onscreen labels

X2 balances feature labels – pre-defined information fields providing various data, e.g. product name, user, date and time or bargraph. Labels names and values are not intended for modification but it is the user who decides which labels are to be displayed.



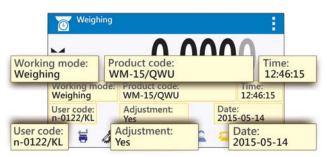
Clear information arrangement even greater ease of operation

Priority for our X2 series balances is ease of operation and intuitive communication with the user. Clear information arrangement presented in a form of pictograms provides even more user-friendly operation.



Text fields adapt the text field to your own needs

Text fields and labels feature similar characteristics, nevertheless text fields, contrary to labels, can be freely created and configured by a user. It is possible to provide each text field with an individual name, function and value. In addition, you can decide on the particular text field size and location.



Databases ergonomics for your weighing process

IT structure of X2 series balances is based on structural databases. Freely programmed database content favours creation of dedicated information network, wherein the network precisely suits nature of any performed process.



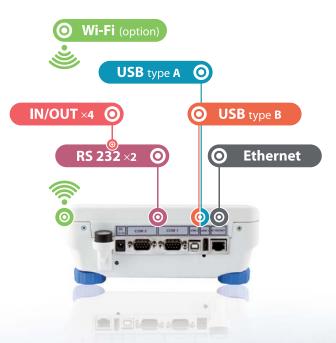
Databases comprise the following components:

- 100 users
- 100 packaging types
- 100 warehouses
- 100 formulas
- 200 formula reports
- 500 density reports
- 1 000 customers
- 5 000 products
- 50 000 weighings
- 500 000 ALIBI records

Communication interfaces

a work

With various means of communication, the possibilities of X2 series balances are even more enhanced when it comes to storage of information. Standard cable connections are realized via USB-A and USB-B or RS 232 ports. As for wireless connection, Wi-Fi networking technology is used by any RADWAGmanufactured software.



Data safety and monitoring

Protecting data user authorization levels

Three different authorization levels provide restricted access to confidential information for particular group of users. Administrator manages authorization levels.



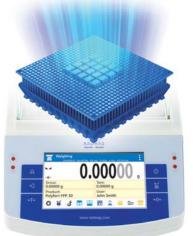
Data archiving and exchange

USB interface facilitates transfer of reports on processes and partial weighing to peripheral devices. This is especially useful for archiving and monitoring purposes. In addition, the USB interface allows copying of input databases.



ALIBI memory secure storage of measurements

ALIBI memory offers effective data protection, it allows to record up to 500 000 weighings. This guarantees safety and continuity of your vital data stored over long period of time.



Option of exporting data from ALIBI memory to your balance.



ALIBI Reader PC software enables the user to overview all weighings recorded in balance memory. The software allows printout of selected data and preparation of PDF and CSV (Excel) reports.

X	74	Date and time	Setal	Uter code	Product	Fead	94	Ten	Pacaser	Number of last digt marker	Last digt Facilier	344
0	1111	2014/01/03 12:19:18	12110000		UNION .	13,1040	544	E.0000		0	No.	1
10	1112	2014/01/03 12 18:18	12310000		UNID4	17,1291	104	E.0000	4	6	The .	1
10	1113	2014/01/03 12 19 19	12310000		11604	17,1273	1/4	E.0000	4	0	160	1
0	1114	2014/01/23 12:18:19	12110000		UNID4	17.1273	104	1.0000	4	0	The .	76
10	1115	2014/01/03 12:19/20	12310000		04804	17,1273	104	6,0000	4	8	140	79
10	1116	2014-01-03 12 19:20	12310000		UNIDA	8.9605	441	0.0000	4.	0	No	76
0	1117	2014-01-03 12-19-20	12110000		UNION	3,5035	661	E.0000		0	No.	76
10	1118	2014/01/03 12 19/21	12310050		UHID4	9.9690	441	£.0000	4	0	Ne	1
0	1118	2014/01/03 12 18/22	12210000		0.0004	299.50	642	0.00	2	8	No.	
13	1120	2014/01/03 12 19:22	12110000		04904	389.50	002	0.00	2	0	No.	
10	3125	2014/01/03 12 19/23	12310000		14804	396.50	e#2	0.00	2	6	No.	79
10	1122	2014/01/03 12:19/29	12110000		UNION	204.52	642	0.00	2	0	Ne	76
10	1123	2014/01/03 12:19:23	12110000		UNID4	388.52	#42	0.00	2	0	No.	78
101	1124	2014/01/03 12:19:34	12310000		UHION	198,79		0.00	2	0	184	
0	1125	2014/01/23 12 19:04	12310000		UHID4	198,91		0.00	2	0	16ú	1
0	1126	2014/01/03 12 19:25	12310000		04004	198.52		0.00	2	0	1kg	
10	1127	2014/01/02 12 19/25	12310000		UNION	198.30		0,00	2	0	No.	N 10
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0	1131	2014/01/03 12:21 10	12310000	TIGE	UH904	199.74		0.00	2	0	Tie .	1
10	1132	2014-31-03 12-21 12	12110000	TROE	UNID4	8,19975	kg.	0.00000	5	0	the .	76
10	1133	2014/01/03 12:21 12	12110000	1958	LHEDH	0.19975	44	9.00000	5	0	190	78
10	1134	2014/01/03 12:21:13	12110000	TIGE	UNION	6.19978	14	0.00000	8	0	No.	
10	1125	2014/21/23 12:21 13	12110000	TIDLE	1,4604	0.19978	kg .	0.00000		0	No.	1
10	1136	2014/01/03 12:21:13	12310000	TIGE	UNIDA	0,19878	49	0,00000	5	0	194	74
141		Store of the state of	attaining.	THEF	a state of the	004.76		A.26			-	

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Reports and printouts

Customized reports

X2 series balances offer reports comprising three customized sections. As a user you have green light for free modification of each section content.

Exemplary report

divided into three

sections: header,

GLP printout and

configurable

footer.

Working mode	Weighing
Date	18.05.2015
Time	11:36:36
Balance type	AS 220.X2
Balance ID	2035
Product	PILL
User	John Smith
Net weight	0.8020 g
Tare	0.5000 g
Gross weight	1.3010 g
5	5
Calibration	-
-	-
Calibration	Report
Calibration Calibration type	Report Internal
Calibration Calibration type User	Report Internal John Smith
Calibration Calibration type User Project	Report Internal John Smith 124/SGW/2015
Calibration Calibration type User Project Date	Report Internal John Smith 124/SGW/2015 18.05.2015

All X2 balances cooperate with computer printers supporting PCL standard. Communication between the devices is established via USB or RS 232 interface.

Printouts of measurements sent to PC software

Measurements carried out by X2 series balance can be transferred directly to RAD-KEY and PW-WIN PC software.



Rad-Key PC Software is designed to acquire your balance data, with the use of special HotKey, which is then entered into an active spreadsheet cell.

Block of data	Configuration
DIOCK OF GALA	Connect
• Text	Transmition
C Value	Events
Change "." To ","	Block of data
Delete "CR"	🦑 File
	Autostart
delete "LF"	Start



PW-WIN PC Software is designed to present measurements in a visual form, produce statistics, and export data to a spreadsheet.

	Date	Time	Timer	Reading	1144	Note	1.4	Accept measurements no low	ac 🗆
53	2013-08-12	11:53:35	30	93,95760	a a	HOLE		Accept measurements no sup	erior:
54	2013-08-12	11:53:35	30	93,95720	0			Durrent statistic	
55	2013-08-12	11:53:36	31	93,95680				Providence and and a second	
56	2013-08-12	11:53:37	32	93,95680				Number of measurements:	7
57	2013-08-12	11:53:37	32	93,95700			_	Minimum value:	0.0000
58	2013-08-12	11:53:38	33	93,95700				President value.	0,0000
59	2013-08-12	11:53:38	33	93,95700			_	Maximum value:	101,7976
60 61	2013-08-12 2013-08-12	11:53:39	34	93,95690 93,95690			_	Average value:	27.9607
62	2013-08-12	11:53:39	34	94,02260			_		
63	2013-08-12	11:53:40	35	97,30490				Average deviation:	39,1195
64	2013-08-12	11:53:41	36	101,38910			_	Standard deviation:	43,7465
65	2013-08-12	11:53:41	36	101,79720			_	Mean square deviation:	132049,4126
66	2013-08-12	11:53:42	37	101,79760	9	1	_		
67	2013-08-12	11:53:42	37	101,79730				Variance:	1913,7597
68	2013-08-12	11:53:43	38	101,79720				Estimated deviation:	1941,4954
69	2013-08-12	11:53:43	38	101,79710				Estimated variance:	44.0624
70	2013-08-12	11:53:44	39	101,79710	9			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	44,0624
4								Totat	1957 2551



Technical specification

PS.X2 series 200 - 10 000 g 1 - 100 mg	APP.X2 series 6-35 kg
	6 - 35 kg
1 - 100 mg	
	0,01 - 5 g
128×128 mm / 195 \times 195 mm	$348 \times 260 \text{ mm}$
internal (automatic)	
5" colour capacitive touchscreen	
JSB A, USB B, Ethernet, 4 $ imes$ IN, 4 $ imes$ OUT,	WiFi (option)
	5" colour capacitive touchscreen USB A, USB B, Ethernet, 4 × IN, 4 × OUT,

Optional equipment

- Barcode readers,
- PCL printers,
- USB keyboard,
- PC Software: PW-WIN, RAD-KEY and ALIBI Reader,
- Under-pan weighing rack,
- Anti-vibration tables,
- Draft shield,
- LCD WD-6 display,
- Density determination kit for solids and liquids.

Optional equipment accessibility is conditioned by a particular model.

PC software



PW-WIN

Cooperation with a computer, measurements presentation, statistics.



RAD-KEY

Capturing balance data, inserting the data into a spreadsheet cell.



ALIBI Reader

Capturing balance data recorded in ALIBI memory.



Features:		Functions:				
5" colour capacitive touchscreen		Databases	Parts counting Checkweighing Dosing Formulation			
Wide operating temperature range		Interfaces: 2×RS232, Ethernet, USB-A, USB-B, 4×IN, 4×OUT, WiFi* *option	Percent weighing Statistics Animal weighing Peak hold Density Determination			
Sensors for touch-free operation		ALIBI Memory	GLP Procedures Under-pan weighing Autotest Infrared sensors Ambient conditions monitoring			
Ambient conditions monitoring	Working mode Weighing Date 18.05.2015 Time 11.36.36 Balance type A5 220.X2 User John Smith Het weight 0.3020.9	Customized reports and printouts	Newton unit measurements Units ALIBI memory Cooperation with titrators			

