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# AS R2 PLUS Analytical Balances



The innovative **AS R2 PLUS** analytical balances guarantee precision and readability along with resistance to variable ambient conditions. New ergonomic solution ensures convenient operation.



**Increased Durability and Reliability**  
of long-term operation due to innovative construction solutions.



**Ensured Accuracy of Indications**  
in extremely challenging conditions due to modernization of internal adjustment system.



**Balance Levelling System**  
Clearly visible levelling device located in the front of the weighing chamber.



**Enlarged Weighing Chamber**  
and open-door clearance allow easy access to the weighing pan and facilitates use of laboratory glassware of various sizes and dimensions.



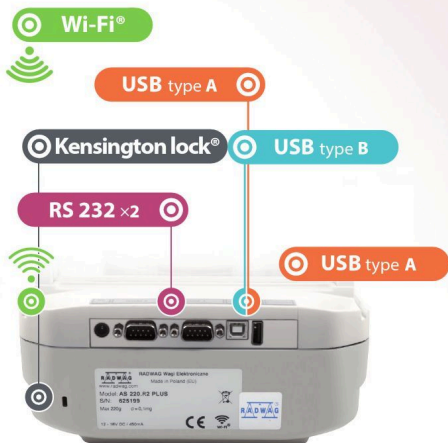
**Open-Work Weighing Pan**  
In order to guarantee readability of  $d=0.01$  mg it is recommended to use the open-work weighing pan ensuring obtaining standard value of USP minimum weight.



**Ease of Communication**  
with peripherals due to placing of the USB interface at the chamber front.

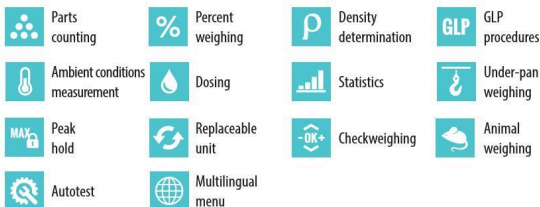


**Improved Aluminium Base**  
ensuring stability of the weighing system



### Communication Interfaces

The functionalities of AS R2 PLUS balances can be expanded using the following communication interfaces: USB-A, USB-B, RS 232, Wi-Fi®. The USB port located on the front of the balance enables easy and fast communication with the USB flash drive and connecting additional devices.



### Data Protection

Access to valuable information is possible after logging. The administrator manages the data access configuration.

### ALIBI Memory

Data safety is ensured by the ALIBI memory integrated into AS R2 PLUS balances, which enables record of up to 100 000 weighings. ALIBI guarantees continuity of data collection over a long period of time.



### Wi-Fi®

Remote balance control via devices with Android, iOS or Windows10 operating systems







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# AS X2 PLUS Analytical Balances



The innovative **AS X2 PLUS** analytical balances guarantee the highest precision and readability along with resistance to variable ambient conditions. New ergonomic solution ensures convenient operation.



**Increased Durability and Reliability** of long-term operation due to innovative construction solutions.



**Ensured Accuracy of Indications** in extremely challenging conditions due to modernization of internal adjustment system.



**LevelSENSING SYSTEM**  
The 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 standards.



**Enlarged Weighing Chamber** and open-door clearance allow easy access to the weighing pan and facilitate use of laboratory glassware of various sizes and dimensions.



**Open-Work Weighing Pan**  
In order to guarantee readability of  $d=0.01 \text{ mg}$  it is recommended to use the open-work weighing pan ensuring obtaining standard value of USP minimum weight.



**Ease of Communication** with peripherals due to placing of the USB interface at the balance front.

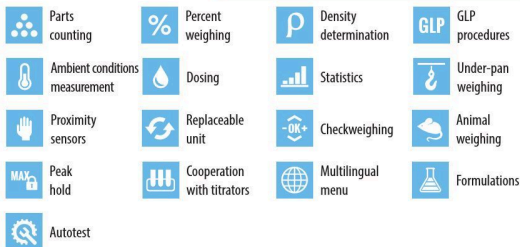


Improved **aluminium** base ensuring stability of the weighing system.



#### Communication Interfaces

The functionalities of AS X2 PLUS balances can be expanded using the following communication interfaces: USB-A, USB-B, RS 232, DB9, Ethernet, Wi-Fi®. The USB port located on the front of the balance enables easy and fast communication with the USB flash drive and connecting additional devices.



## SMART<sub>LAB</sub> by RADWAG – support and supervision over an ongoing mass measurement in the laboratory





#### Proximity Sensors

Two programmable sensors to be freely customized.

#### Operation Comfort

5" colour touch screen ensures comfort of balance operation even in laboratory gloves.

#### Display Customization








Full configuration of key set and the possibility to link a particular key to a specific working mode.

#### Information Transparency

- Information layout in a form of pictograms ensures easy and intuitive operation,
- Flexible configuration of icons, labels and text fields.

## AS X2 PLUS

### Technical Specification

																			
		AS 60/220.X2	AS 62.X2	AS 82/220.X2	AS 120.X2	AS 110.X2	AS 160.X2	AS 220.X2	AS 310.X2	AS 520.X2									
Maximum capacity [Max]		60 g / 220 g	62 g	82 g / 220 g	120 g	110 g	160 g	220 g	310 g	520 g									
Readability [d]		0.01 mg / 0.1 mg	0.01 mg	0.01 mg / 0.1 mg	0.01 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg									
Typical values	Max repeatability (5% Max)*	0.015 mg	0.012 mg	0.015 mg	0.015 mg	0.06 mg	0.07 mg	0.07 mg	0.08 mg	0.08 mg									
	Max repeatability	0.08 mg	0.02 mg	0.08 mg	0.04 mg	0.08 mg	0.08 mg	0.08 mg	0.12 mg	0.25 mg									
	Minimum weight USP	20 mg	24 mg	30 mg	30 mg	120 mg	140 mg	140 mg	160 mg	160 mg									
	Minimum weight	3 mg	2.4 mg	3 mg	3 mg	12 mg	14 mg	14 mg	16 mg	16 mg									
	Max repeatability (5% Max)*	0.02 mg	0.018 mg	0.02 mg	0.02 mg	0.09 mg	0.09 mg	0.09 mg	0.12 mg	0.12 mg									
	Max repeatability	0.1 mg	0.03 mg	0.1 mg	0.05 mg	0.1 mg	0.1 mg	0.1 mg	0.15 mg	0.4 mg									
	Linearity	±0.05 mg / ±0.2 mg	±0.05 mg	±0.05 mg / ±0.2 mg	±0.07 mg	±0.2 mg	±0.2 mg	±0.2 mg	±0.3 mg	±0.4 mg									
	Stabilization time	2 s	2 s	2 s	2 s	2 s	2 s	2 s	2.5 s	2.5 s									
	Adjustment	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal									
	Weighing pan dimensions	ø 90 mm**	ø 90 mm**	ø 90 mm**	ø 90 mm**	ø 100 mm	ø 100 mm	ø 100 mm	ø 100 mm	ø 100 mm									
Display		5" colour touchscreen																	
Communication interfaces		USB-A, USB-B, RS 232, Ethernet, DB9 external tare print buttons, Wi-Fi*																	

\*Repeatability is expressed as a standard deviation from 10 weighing cycles. | \*\*ø 85 mm standard weighing pan on purchase order | Wi-Fi\* is a registered trademark owned by Wi-Fi Alliance organization.