

New sensor: Radwag MonoBLOCK™
Unrivalled repeatability
Weighing heavy loads with the maximum accuracy



RADWAG MONOBLOCK®

radwagusa.com

APM

High Capacity Precision Balances

THE HIGHEST LEVEL OF PERFORMANCE

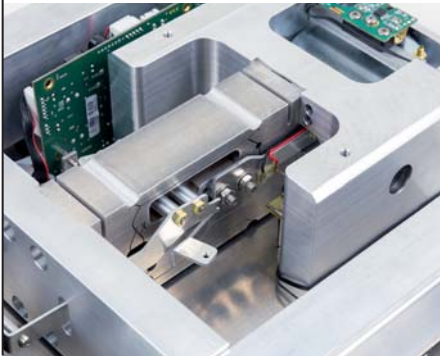
RADWAG MonoBLOCK™ solution facilitates weighing 10 mg - 50 kg sample weights with the highest accuracy.

Unrivalled Repeatability

APM balances are characterized by the highest measurement accuracy for particular maximum capacities. These instruments guarantee readability of 0.01 g at capacity of 15 kg and readability of 0.1 g at capacity of 50 kg.

RADWAG MONOBLOCK®

The APM series has been equipped with an up to date innovative measuring system RADWAG MonoBLOCK™. Use of brand-new RADWAG-patented technology guarantees stability of repeatability over time at a range $sd < 1d$. The unique measuring system solution is characteristic for great resistance to ambient conditions change.



High Quality Design

Housing made of ABS thermoplastic polymer and stainless steel weighing pan effectively protect the weighing sensor and electronics against water, dust and damage. Both the housing and the weighing pan function also as a protection against chemical substances.



An in-built 4-point protection system prevents balance overloading, this ensures safety in case too heavy load is applied onto the weighing pan. Robust design allows device operation even in the most challenging ambient conditions.



Work Optimisation

Large weighing pan facilitates weighing or dosing of many recipe ingredients using one balance and one container only.



With this process optimisation is guaranteed both in a laboratory and on a production line. Application of one weighing instrument for a number of various purposes considerably reduces costs and improves performance.

Wide Range of Functions and Applications

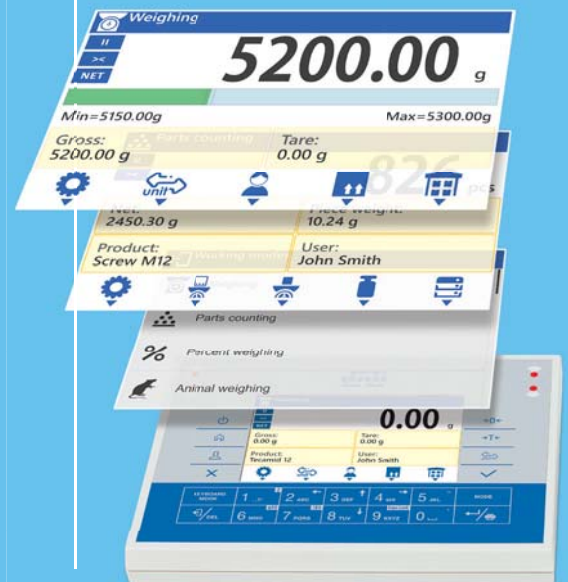
APM series balances offer plenty of advanced weighing applications improving their functionality.

Wide range of useful functions ensures comfort of operation.



More Than Weighing!

As hi-tech weighing instruments APM balances offer not only regular weighing but also a wide range of professional working modes. Large color screens simplify operation of any working mode making it easy and intuitive.



APM series balances offer good ergonomics, wide range of applications and comfort of operation.

Usage Ergonomics

With use of long cable it is possible to locate the terminal in a place facilitating convenient operation.

The terminal design allows to mount it on a wall at suitable level.



APM series is equipped with only 11-centimetre high weighing platform, the lowest permissible solution for instruments of this class. The unique measuring system solution is characterized with great resistance to ambient conditions change.



Wireless communication between the balance and the terminal ensures safe operation of the instrument in a fume cupboard or glove box chamber in the course of weighing of toxic substances (chemicals, poisonous vapour etc.).



Settings Customization and Accordance with CFR21

Modern weighing terminals used along with APM series balances enable adjusting balance settings to individual requirements of particular operators. Additionally they guarantee data safety and limited access which prevents unauthorized users against entering the balance program.

Large display with clear menu layout offers even more comfortable operation making your work enjoyable like never before.

APM series balances comply with CFR21 standard. This is pioneer solution available on the market that adheres to CFR21 requirements implemented in the balance firmware (4Y series).



Cooperation with External Devices

APM series is equipped with complete range of communication interfaces enabling connection of numerous peripheral devices.



PC Computer



Printer



Keyboard



Additional display



Barcode scanner



Thermo hygro barometer



RFID reader



PLC



Tower lights



**APM 10.4Y****APM 15.4Y****APM 35.4Y****APM 50.4Y****APM 10.C32****APM 15.C32****APM 35.C32****APM 50.C32**

Maximum capacity [Max]	10 kg	15 kg	35 kg	50 kg	10 kg	15 kg	35 kg	50 kg
Minimum load	0.5 g	0.5 g	5 g	5 g	0.5 g	0.5 g	5 g	5 g
Preload	1 kg	1.5 kg	3.5 kg	5 kg	1 kg	1.5 kg	3.5 kg	5 kg
Readability [d]	0.01 g	0.01 g	0.1 g	0.1 g	0.01 g	0.01 g	0.1 g	0.1 g
Tare range	-10 kg	-15 kg	-35 kg	-50 kg	-10 kg	-15 kg	-35 kg	-50 kg
Linearity	±0.03 g	±0.03 g	±0.3 g	±0.3 g	±0.03 g	±0.03 g	±0.3 g	±0.3 g
Repeatability (nominal mass)*	0.01 g	0.015 g	0.1 g	0.15 g	0.01 g	0.015 g	0.1 g	0.15 g
Repeatability (minimal mass)*	0.004 g	0.004 g	0.04 g	0.04 g	0.004 g	0.004 g	0.04 g	0.04 g
Stabilization time	3 s	3 s	3 s	3 s	3 s	3 s	3 s	3 s
Sensitivity drift	2 ppm/°C in 15–35 °C	2 ppm/°C in 15–35 °C	2 ppm/°C in 15 + 35 °C	2 ppm/°C in 15–35 °C	2 ppm/°C in 15–35 °C	2 ppm/°C in 15 + 35 °C	2 ppm/°C in 15–35 °C	2 ppm/°C in 15 + 35 °C
Minimum weight USP	8.2 g	8.2 g	82 g	82 g	8.2 g	8.2 g	82 g	82 g
Minimum weight (U=1%, k=2)	0.82 g	0.82 g	8.2 g	8.2 g	0.82 g	0.82 g	8.2 g	8.2 g
Adjustment	Internal	Internal	Internal	Internal	Internal	Internal	Internal	Internal
Display	5.7" color touch screen	5.7" color touch screen	5.7" color touch screen	5.7" color touch screen	5" color graphic screen	5" color graphics screen	5" color graphic screen	5" color graphic screen
Weighing pan dimension	347 × 259 mm	347 × 259 mm	347 × 259 mm	347 × 259 mm	347 × 259 mm	347 × 259 mm	347 × 259 mm	347 × 259 mm
Terminal type	PUE 7.1	PUE 7.1	PUE 7.1	PUE 7.1	PUE C32	PUE C32	PUE C32	PUE C32
USB type A	2 ×	2 ×	2 ×	2 ×	YES	YES	YES	YES
USB type B	–	–	–	–	YES	YES	YES	YES
RS 232	2 ×	2 ×	2 ×	2 ×	2 ×	2 ×	2 ×	2 ×
Ethernet	YES	YES	YES	YES	YES	YES	YES	YES
Wireless Connection	YES	YES	YES	YES	YES	YES	YES	YES
Digital I/O/OUT	4 ×	4 ×	4 ×	4 ×	–	–	–	–
Working temperature**	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Power supply	12 ÷ 16 V DC / 0.5 A	12 ÷ 16 V DC / 0.5 A	12 ÷ 16 V DC / 0.5 A	12 ÷ 16 V DC / 0.5 A	12 ÷ 16 V DC / 0.5 A	12 ÷ 16 V DC / 0.5 A	12 ÷ 16 V DC / 0.5 A	12 ÷ 16 V DC / 0.5 A
Net weight	9.8 kg	9.8 kg	10 kg	10 kg	9.8 kg	9.8 kg	10 kg	10 kg

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

** Balance maintains parameters in accordance with type approval in temperatures +15 ÷ +35 °C