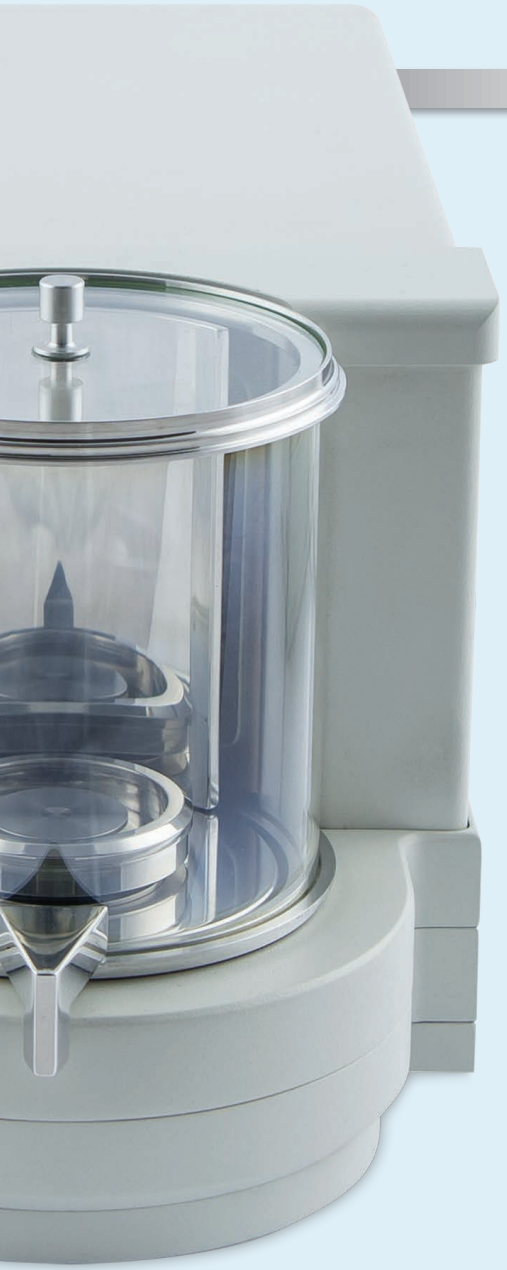
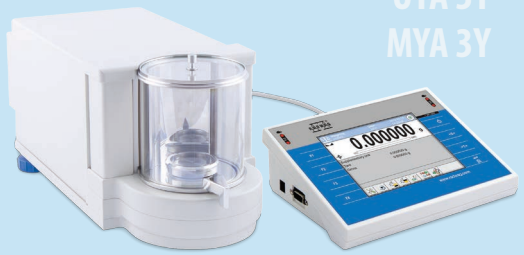
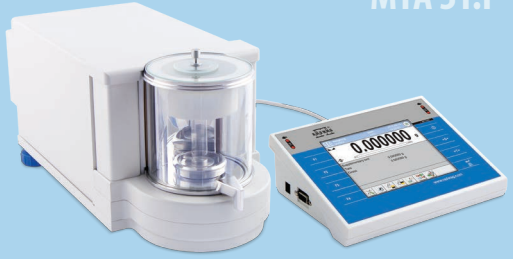
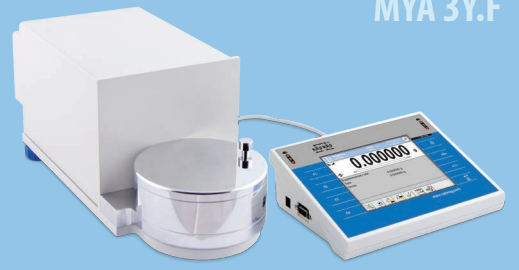
RADWAG®









NEW GENERATION OF ULTRA-MICROBALANCES AND MICROBALANCES OF 3Y SERIES

Power

Brand new computing platform with 2x1GHz dual-core processor, 256MB DDR2 ram, 256MB flash memory and operating system Windows Embedded Compact 7.

Micro SD memory card support – possibility of extending the size of database or record of extra information.

Much HIGHER responsiveness of the menu and application operation.

Multimedia support – (tutorial videos, multimedia instructions etc.)

Audio module enabling voice message support.

Wi-Fi interface ensuring wireless connection with printers and other peripheral devices.

Cooperation with application intended for smartphones and tablets with iOS and Android systems.

Precision

Susceptibility to air drafts reduced six times (eg. air conditioning effect).

Susceptibility of zero indication to temperature changes reduced five times – due to brand new weighing mechanism.

Internal resolution of A/D conversion equals 600 million intervals, lower thermal noise of reference voltage – due to improved weighing electronics.

Even more precise temperature measurement: 330 000 intervals per one degree of Celsius – due to the use of PT1000 sensors

Brand new signal filtering algorithm, enabling selective tuning to actual interfering frequency.

Functionality

Brand new weighing chamber made of glass – almost one hundred percent visibility of the weighed sample.

5,7" colour LCD with a resistive touch screen.

Proximity sensors providing hands-free operation of the programmed functions.

More compact dimensions of the balance, due to elimination of external module of electronics.

Brand new user menu, fully compatible with menu of 3Y series balances.

Cooperation with THB module responsible for ambient condition monitoring.

Possibility of operation on a dual-position workstation for pipettes calibration.

Interfaces: **USB** (2 pcs.), RS232 (2 pcs.) Ethernet 10/100, **WiFi** 802,11 b,g,n (option).

New generation of ultra-microbalances and microbalances of 3Y series

Technical data	UYA 2.3Y	MYA 0,8/3.3Y	MYA 2.3Y	MYA 5.3Y	MYA 11.3Y	MYA 21.3Y	MYA 21.3Y.P	MYA 5.3Y.F	MYA 5.3 Y.F1
Maximum capacity [Max]	2 g	0,8/3 g	2 g	5 g	11 g	21 g	21 g	5 g	5 g
Readability [d]	0,1 µg	1/10 µg	1 µg	1 µg	1 µg	1 µg	1 µg	1 µg	1 µg
Tare range	-2 g	-3 g	-2 g	-5 g	-11 g	-21 g	-21 g	-5 g	-5 g
Pan size	ø 16 mm	ø 16 mm and ø 60 mm (intended for filters)	ø 16 mm	ø 26 mm	ø 26 mm	ø 26 mm	ø 26 mm	ø100 mm and ø 26 mm	ø160 mm and ø 26 mm
Weighing chamber	ø 90×90 mm	ø 90×90 mm	ø 90×90 mm	ø 90×90 mm	ø 90×90 mm	ø 90×90 mm	ø 90×90 mm	ø118×35 mm	ø168×35 mm
Repeatability	0,4 µg (0,2g÷1g) 0,6 µg (1g÷2g)	1 µg (0,8g) 5 µg (0,8g÷3g)	1 µg (2g)	1 µg (2g) 1,6 µg (2g÷5g)	1,5 µg (do 0,2g) 2,0 µg (0,2g÷5g) 2,5 µg (5g÷11g)	1,5 µg (do 0,2g) 2,0 µg (0,2÷5g) 2,5 µg (5g÷11g) 3,0 µg (11g÷21g)	1,5 µg (do 0,2g) 2,0 µg (0,2g÷5g) 2,5 µg (5g÷11g) 3,0 µg (11g÷21g)	1,6 µg (do 2g) 2,5 µg (2g÷5g)	1,6 µg (do 2g) 2,5 µg (2g÷5g)
Linearity	±1,5 µg	±3 µg / ±4 µg	± 3 µg	± 5 µg	± 6 µg	± 7 µg	±7 µg	± 5 µg	± 5 µg
Eccentricity	1,5 µg	3 µg / 4 µg	3 µg	5 µg	6 µg	7 µg	7 µg	5 µg	5 µg
Sensitivity drift	$1{,}5\times10^{-6}\times Rt$	$1{,}5\times10^{-6}\times Rt$	$1{,}5\times10^{-6}\times Rt$	$1{,}5\times10^{-6}\times Rt$	$3\times10^{-6}\times Rt$	$4\times10^{-6}\times Rt$	$4\times10^{-6}\times Rt$	$1{,}5\times10^{-6}\times Rt$	$1{,}5\times10^{-6}\times Rt$
Temperature drift of sensitivity	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$	$1\times10^{-6}/°C\times Rt$
Time drift of sensitivity	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$	$1\times10^{-6}/Rok\times Rt$
Minimum weight (USP)	0,8 mg	2 mg	2 mg	2 mg	3 mg	3 mg	3 mg	3,2 mg	3,2 mg
Minimum weight	0,08 mg	0,2 mg	0,2 mg	0,2 mg	0,3 mg	0,3 mg	0,3 mg	0,32 mg	0,32 mg
Stabilization time	10-20 s	5 s	5 s	5 s	5 s	5 s	5 s	5 s	5 s
Working temperature	+18 ÷ +30 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C	+10 ÷ +40 °C
Working humidity	Atmospheric humidity 40% ÷ 80%								
Adjustment/Calibration	Internal (automatic)								
Display	Colour 5,7″ display (640x480) with a resistive touch screen								
Computing platform	2x1GHz dual-core processor, 256MB DDR2 ram, 256MB flash memory and operating system Windows Embedded Compact 7								
Multimedia	Audio module (voice message support) / Multimedia support – (tutorial videos, multimedia instructions)								
Interfaces	2×USB host, 2×RS 232, Ethernet 10/100 Mbit, WiFi 802.11 b,g,n – 4 inputs/4 outputs as an option								
Power supply	13,5 ÷ 16 V DC / 2,1 A								