







3Y SERIES MICROBALANCES - THE NOVELTIES

- ✓ Higher resolution up to 600 million intervals
- More precise temperature measurement
- Brand new signal filtering algorithm, enabling selective tuning to actual interfering frequency.
- Modernized mechanics design Susceptibility to air drafts reduced six times
- Cooperation with THB module
- Brand new, faster terminal comprising: audio module (audio readout of the weighing result), video module (tutorial videos playback), WiFi interface and possibility of cooperation with applications based on ANDROID system.

New generation of microbalances MYA 3Y are intended to measure mass with the highest accuracy. They feature 5,7" LCD colour touch panel which provides new possibilities of balance operation and presenting measurement results. Measurement reliability and accuracy are maintained by system of automatic internal adjustment/calibration.

Level control in the MYA 3Y series is based on LevelSENSING system, RADWAG patented solution, which uses a system of an electronic level. New function is online monitoring of ambient conditions through built-in ambient conditions module with visualization on balance's display. Personalization of balance settings is carried out in extended user profiles and multilevel system of access levels to balance's menu.

Control over opening and closing of the weighing chamber's door is carried out through programmable IR proximity sensors, installed on the terminal's overlay.

Differential weighing mode aids mass control of the same sample subjected to differed processes over time. It is particularly useful in pharmacy, environmental protection, petroleum chemistry, etc. Pipettes calibration mode is carried out using an adapter, which is an ergonomic tool aiding calibration and checking of piston pipettes using gravimetric measuring method. Extended databases enable storing all carried out measurements, with option of printing and exporting them. Standard and user defined printouts allow for maintaining documentation complying with GLP/GMP requirements practically in any application.







Percent setup



Statistics



sensors

Air buoyancy



Autotest

compensation



Labelling

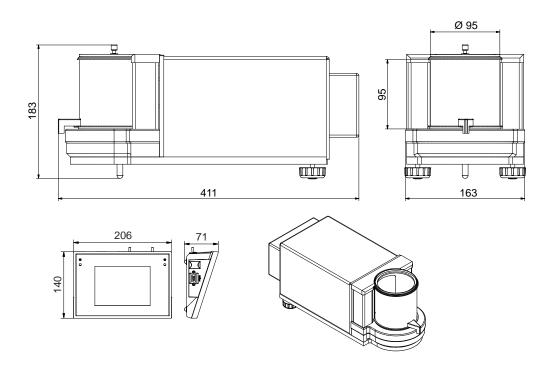


GLP procedures



Formulas

Dimensions



Technical data:					
	MYA 2.3Y	MYA 0,8/3.3Y	MYA 5.3Y	MYA 11.3Y -	MYA 21.3Y
Max load	2 g	0,8 g / 3 g	5 g	11 g	21 g
Readability	1 µg	1 μg /10 μg	1 µg	1 µg	1 µg
Repeatability *	1 μg (2g)	1 μg (0,8g) 5 μg (0,8g÷3g)	1 μg (2g) 1,6 μg (2g÷5g)	1,5 μg (to 0,2g) 2,0 μg (0,2g÷5g) 2,5 μg (5g÷11g)	1,5 μg (to 0,2g) 2,0 μg (0,2g÷5g) 2,5 μg (5g÷11g) 3,0 μg (11g÷21g)
Linearity	±3 µg	±3 µg / ±4 µg	±5 μg	±6 µg	±7 μg
Eccentric load deviation	3 µg	3 µg / 4 µg	5 µg	6 µg	7 μg
Sensitivity offset	$1.5 \times 10^{-6} \times Rt$	$1.5 \times 10^{-6} \times Rt$	1,5 × 10 ⁻⁶ × Rt	3 × 10 ⁻⁶ × Rt	$4 \times 10^{-6} \times Rt$
Sensitivity temperature drift	1×10^{-6} / °C × Rt	1×10^{-6} / °C × Rt	1×10^{-6} / °C × Rt	1×10^{-6} / °C × Rt	1×10^{-6} / °C × Rt
Sensitivity stability	1×10^{-6} / Rok × Rt	1×10^{-6} / Rok × Rt	1×10^{-6} / Rok × Rt	1×10^{-6} / Rok × Rt	1×10^{-6} / Rok × Rt
Minimum weight (USP)	2 mg	2 mg	2 mg	3,0 mg	3,0 mg
Minimum weight (U = 1%, k = 2)	0,2 mg	0,2 mg	0,2 mg	0,3 mg	0,3 mg
Pan size	ø 16 mm	ø 16 + 60 mm (do filtrów)	ø 26 mm	ø 26 mm	ø 26 mm
Weighing chamber dimensions			ø 90 × 90 mm		
Stabilization time			5 s		
Adjustment/Calibration			automatic (internal)		
Power supply			13,5 ÷ 16 V DC / 2,1 A		
Casing of the terminal			ABS plastic		
Display		colour 5,7"(64	0x480) with a resistive	touch screen	
Processor			2 × 1 GHz		
Memory		RAM: 256	MB DDR2, flash: 8 GB	microSD	
Interface		2×USB host, 2×RS 232, E	thernet 10/100 Mbit, W	iFi 802.11 b,g,n - optional	
Audio module		YES	(voice messages supp	ort)	
Video support		YES (vide	eos and multimedia inst	ructions)	
IN / OUT			4 in / 4 out (digital)		
Ambient conditions					
Working temperature			+10 ° ÷ +40 °C		
Change rate of working temperat	ure		±0,3 °C/h (±1 °C/8h)		
Atmospheric humidity			40% ÷ 80%		
Change rate of atmospheric hum	idity		±1%/h (±4%/8h)		

Rt - net weight

Data given in tables are values determined in typical laboratory conditions. In the actual operation conditions the values of these parameters may differ from those listed above because of the impact of ambient conditions and/or balance settings.

Antivibration table for microbalances Antistatic ionizer DJ-03 Professional weighing table THB 2 ambient conditions module Impact Epson printer Additional LCD display "WD-5" PC USB keyboard Label printer Citizen Anti draft shield for microbalances Power adapter with battery and charger ZR-02 Tare and Print foot button Mass standard PW-WIN computer software Antistatic cable PA 1 RAD-KEY computer software Bar code scanner Cable RS 232 (balance - Epson, Citizen printer) "P0151" **REC-FS** computer software

^{*} Repeatability is expressed as a standard deviation from 10 weighing cycles.

MYA 3Y.F MICROBALANCES









New generation of microbalances MYA 3Y is designed to meet the highest requirements for determination of mass. Measurement reliability and accuracy are maintained by system of automatic internal adjustment / calibration.

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mechanical components and additionally protects it from shocks and vibrations caused by users operating the

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Microbalances comprise two major components (an

Filling

Checkweighing

Percent setup





Statistics



sensors Air buoyancy



compensation



Autotest



Labelling





procedures Formulas

3Y SERIES MICROBALANCES - THE NOVELTIES

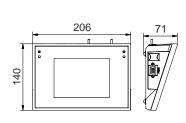
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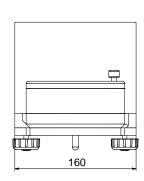
instrument.

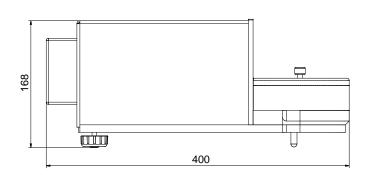
weighing process.

Brand new, faster terminal comprising: audio module (audio readout of the weighing result), video module (tutorial videos playback), WiFi interface and possibility of cooperation with applications based on ANDROID system.

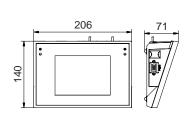
F version

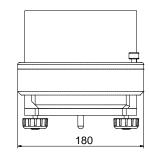


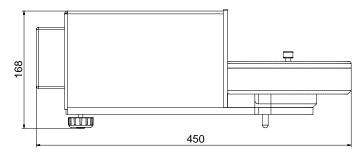




F1 version







ensitivity offset 1,5 × 10 ° × Rt 1 × 10 ° / ° C × Rt 1 × 10 ° / ° C × Rt 1 × 10 ° / ° C × Rt 1 × 10 ° / ° C × Rt 1 × 10 ° / Rok × Rt 1 × 10	Technical data:				
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deadability 1/10 μg 1 μg 1 μg 1 μg epeatability* 1 μg / 5 μg 1,6 μg (< 2 g); 2,5 μg (2 g + 5 g)	Max load	- 0.8/3 n	- 5 ი	- 5 ი	
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Sensitivity temperature drift	Sensitivity offset				
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linimum weight (U = 1%, k = 2) 0,2 mg 0,32 mg 0,32 mg an size ø16 + ø60 mm (weighing pan for fillters) ø 100 mm + ø 26 mm ø 160 mm + ø 26 mm /eighing chamber dimensions ø 90 × 90 mm ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 90 × 90 mm ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 90 × 90 mm ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 118 × 35 mm ø 168 × 35 mm /eighing chamber dimensions ø 18 × 16 V DC / 2,1 A ø 18 × 16 V DC / 2,1 A asing of the terminal ABS plastic ø 18 × 16 V DC / 2,1 A ø 18 × 16 V DC / 2,1 A asing of the terminal ABS plastic ø 168 × 26 MB DDR2 ø 168 × 26 MB DE2 ø 168 × 26 MB DE2 <td>Minimum weight (USP)</td> <td>2 mg</td> <td>3,2 mg</td> <td>3,2 mg</td>	Minimum weight (USP)	2 mg	3,2 mg	3,2 mg	
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ower supply asing of the terminal ABS plastic isplay colour 5,7"(640x480) with a resistive touch screen rocessor 2 × 1 GHz lemory RAM: 256 MB DDR2, flash: 8 GB microSD sterface 2×USB host, 2×RS 232, Ethernet 10/100 Mbit, WiFi 802.11 b,g,n - optional udio module YES (voice messages support) ideo support YES (videos and multimedia instructions) I/OUT 4 in / 4 out (digital) mbient conditions /orking temperature +10 ° ÷ +40 °C hange rate of working temperature ±0,3 °C/h (±1 °C/8h) tmospheric humidity ** 40% ÷ 80%	Stabilization time		5 s		
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RAM: 256 MB DDR2, flash: 8 GB microSD aterface 2×USB host, 2×RS 232, Ethernet 10/100 Mbit, WiFi 802.11 b,g,n - optional udio module YES (voice messages support) ideo support YES (videos and multimedia instructions) VOUT 4 in / 4 out (digital) mbient conditions vorking temperature +10 ° ÷ +40 °C hange rate of working temperature ±0,3 °C/h (±1 °C/8h) tmospheric humidity ** 40% ÷ 80%	Display	colour 5,	7"(640x480) with a resistive touch	screen	
atterface 2×USB host, 2×RS 232, Ethernet 10/100 Mbit, WiFi 802.11 b,g,n - optional udio module YES (voice messages support) ideo support YES (videos and multimedia instructions) I / OUT 4 in / 4 out (digital) mbient conditions /orking temperature +10 ° ÷ +40 °C hange rate of working temperature ±0,3 °C/h (±1 °C/8h) tmospheric humidity ** 40% ÷ 80%	Processor		2 × 1 GHz		
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N / OUT 4 in / 4 out (digital) mbient conditions /orking temperature $+10 \degree \div +40 \degree C$ hange rate of working temperature $\pm 0.3 \degree C/h (\pm 1 \degree C/8h)$ tmospheric humidity ** $\pm 0.8 \%$	Audio module		YES (voice messages support)		
mbient conditions /orking temperature $+10 \degree \div +40 \degree C$ hange rate of working temperature $\pm 0.3 \degree C/h (\pm 1 \degree C/8h)$ tmospheric humidity ** $\pm 0.0000000000000000000000000000000000$	Video support	YES	YES (videos and multimedia instructions)		
/orking temperature $+10\degree \div +40\degree C$ hange rate of working temperature $\pm 0.3\degree C/h (\pm 1\degree C/8h)$ tmospheric humidity ** $\pm 0.96\%$	IN / OUT	4 in / 4 out (digital)			
hange rate of working temperature ± 0.3 °C/h (± 1 °C/8h) tmospheric humidity ** ± 0.3 °C/h (± 1 °C/8h)	Ambient conditions				
tmospheric humidity ** 40% ÷ 80%	Working temperature		+10 ° ÷ +40 °C		
·	<u> </u>	ire	±0,3 °C/h (±1 °C/8h)		
hange rate of atmospheric humidity ±1%/h (±4%/8h)	Atmospheric humidity **		40% ÷ 80%		
	Change rate of atmospheric humid	dity	±1%/h (±4%/8h)		

Rt - net weight

^{** -} Non-condensing conditions

Additional equipment:	
Antivibration table for microbalances	Antistatic ionizer DJ-03
Professional weighing table	THB 2 ambient conditions module
Impact Epson printer	Additional LCD display "WD-5"
Label printer Citizen	PC USB keyboard
Anti draft shield for microbalances	Power adapter with battery and charger ZR-02
Tare and Print foot button	Mass standard
PW-WIN computer software	Antistatic cable PA 1
RAD-KEY computer software	Bar code scanner
REC-FS computer software	Cable RS 232 (balance - Epson, Citizen printer) "P0151"

 $^{^{\}star}$ - repeatability expressed as standard deviation from 10 weighing cycles

MYA 3Y.P Microbalances for calibration of pipettes

RADWAG









A - evapouration ring B - calibration vessel



release date 12-08-2014

Filling



Checkweighing



Percent setup



Statistics



Infrared sensors



Air buoyancy compensation



Autotest



Labelling



GLP procedures



Formulas



Pipette calibration

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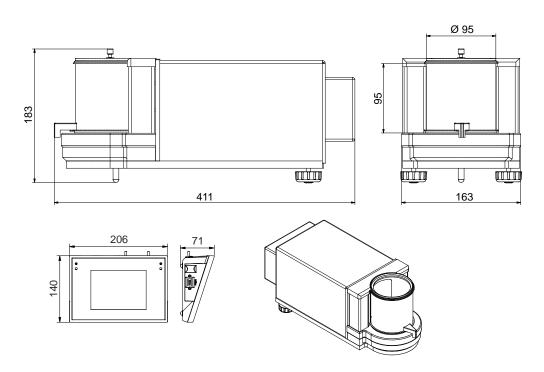
New generation of microbalances MYA 3Y are designed to meet the highest requirements of mass measurements. Balance's weighing chamber is adjusted to calibration of piston pipettes. The noncentral location of the opening in chamber's top cover facilitates pipette insertion. Measurement reliability and accuracy are maintained by system of automatic internal adjustment/calibration.

Microbalances consist of two major parts (an indicator and a precise mechanical measurement system in a separate enclosure). This solution eliminates the temperature influence and separates from shocks and vibrations caused by users operating software.

All the elements of the balance are made of glass and steel which eliminates the influence of electrostatics on the weighing process.

Additional adapter for pipettes calibration is a standard equipment of the balance.

Dimensions



Technical data:	MYA 21.3Y.P
	MITA 21.51.P
Max load	21 g
Readability	1 µg
,	1,5 μg (to 0,2g)
Denoctobility *	2,0 µg (0,2g÷5g)
Repeatability *	2,5 µg (5g÷11g)
	3,0 μg (11g÷21g)
Linearity	±7 μg
Eccentric load deviation	7 μg
Sensitivity offset	4 × 10-6 × Rt
Sensitivity temperature drift	1 × 10-6 / °C × Rt
Sensitivity time drift	1 × 10-6 / Rok × Rt
Minimum weight (USP)	3,0 mg
Minimum weight (U = 1%, k = 2)	0,3 mg
Pan size	ø 26 mm
Weighing chamber dimensions	ø 90 × 90 mm
Stabilization time	5 s
Adjustment / Calibration	automatic (internal)
Working temperature	+10 ° ÷ +40 °C
Relative air humidity **	40% ÷ 80%
Power supply	13,5 ÷ 16 V DC / 2,1 A
Casing of the terminal	ABS plastic
Display	colour 5,7"(640x480) with a resistive touch screen
Processor	2 × 1 GHz
Memory	RAM: 256 MB DDR2, flash: 8 GB microSD
Interface	2×USB host, 2×RS 232, Ethernet 10/100 Mbit, WiFi 802.11 b,g,n - optional
Audio module	YES (voice messages support)
Video support	YES (videos and multimedia instructions)
IN / OUT	4 in / 4 out (digital)
Dt. not woight	

Rt - net weight

Additional equipment:

Antivibration table for microbalance	Antistatic ionizer DJ-03
Profesional weighing table	Ambient conditions module
Impact Epson printer	Additional LCD display "WD-5"
Label printer Citizen	PC keyboard
Anti draft shield for microbalances	Power adapter with battery and charger ZR-02
Air density determination kit	Mass standard
Tare and "Print" foot button	Antistatic cable
PW-WIN computer software	Bar code scanner
RAD-KEY computer software	Cable RS 232 (scale - computer) "P0108"
REC-FS computer software	Cable RS 232 (scale, Epson, Citizen printer) "P0151"
Pipettes computer software	

 $^{^{\}star}$ Repeatability is expressed as a standard deviation from 10 weighing cycles

^{**} Non-condensing conditions

UYA 3Y ULTRA-MI CROBALANCES









New generation of ultramicrobalances UYA 3Y is designed to meet the high requirements for mass determination with highest accuracy of 0,1 µg and 2 g capacity.

Measurement reliability and accuracy is ensured by internal adjustment/calibration system.

Microbalances comprise two major components (an indicator and a precise mechanical measuring system are enclosed separately). Such design eliminates the influence of heat sourcing from instrument's electronics on its mechanical components and eliminates vibration transfer.

All the elements of a microbalance are made of glass and steel which eliminates the influence of electrostatics on weighing process.

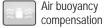














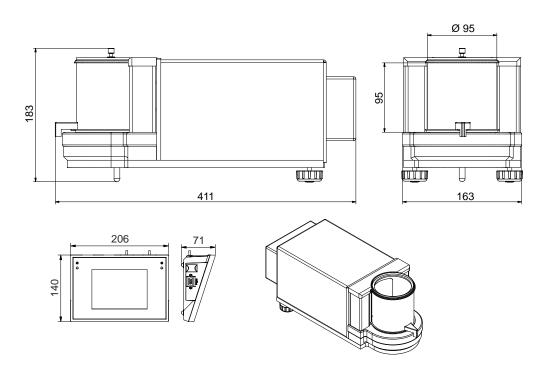






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- Brand new, faster terminal comprising: audio module (audio readout of the weighing result), video module (tutorial videos playback), WiFi interface and possibility of cooperation with applications based on ANDROID system.





release date 12-08-2014





















procedures



Formulas

Technical data:	
	UYA 2.3Y
	<u>-</u>
Max load	2 g
Min load	0,01 mg
Readability	0,1 μg
Repeatability	0,4 µg (0,2g÷1g)
Repeatability	0,6 μg (1g÷2g)
Linearity	±1,5 μg
Eccentric load deviation	1,5 µg
Sensitivity offset	$1.5 \times 10^6 \times Rt$
Sensitivity temperature drift	1 × 10 ⁶ / °C × Rt
Sensitivitytime drift	1 × 10 ⁶ / Rok × Rt
Minimum weight (USP)	0,9 mg
Minimum weight (U = 1%, k = 2)	0,08 mg
Pan size	ø 16 mm
Weighing chamber dimensions	ø 90 × 90 mm
Stabilization time	10-20 s
Adjustment / Calibration	automatic (internal)
Power supply	13,5 ÷ 16 V DC / 2,1 A
Casing of the terminal	ABS plastic
Display	colour 5,7"(640x480) with a resistive touch screen
Processor	2 × 1 GHz
Memory	RAM: 256 MB DDR2, flash: 8 GB microSD
Interface	2×USB host, 2×RS 232, Ethernet 10/100 Mbit, WiFi 802.11 b,g,n - optional
Audio module	YES (voice messages support)
Video support	YES (videos and multimedia instructions)
IN / OUT	4 in / 4 out (digital)
Ambient conditions:	
Working temperature	+18 ° ÷ +30 °C
Change rate of working temperatures	±0,3°C/1h (±0,5°C / 12h)
Relative air humidity **	40% ÷ 80%
Change rate of atmospheric humidity	40% ÷ 60% (±5% / 4h)
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Rt - net weight

^{** -} Non-condensing conditions

Additional LCD display "MD F"
Additional LCD display "WD-5"
PC keyboard
Power adapter with battery and charger ZR-02
Mass standard
Antistatic cable
Bar code scanner
Cable RS 232 (balance - computer) "P0108"
Cable RS 232 (balance - Epson, Citizen printer) "P0151"