

# MYA 3Y.P Microbalances for calibration of pipettes



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A - evaporation ring  
B - calibration vessel

-  Parts counting
-  Dosing
-  Checkweighing
-  Formulation
-  Percent deviations
-  Statistics
-  Animal weighing
-  Differential weighing
-  Pipettes calibration
-  Statistical Quality Control
-  Autotest (GLP, Filter)
-  Automatic sliding door
-  Air buoyancy compensation
-  GLP procedures
-  Infrared sensors
-  Ambient conditions monitoring
-  Newton unit measurement
-  Replaceable units

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

## 3Y SERIES MICROBALANCES - THE NOVELTIES

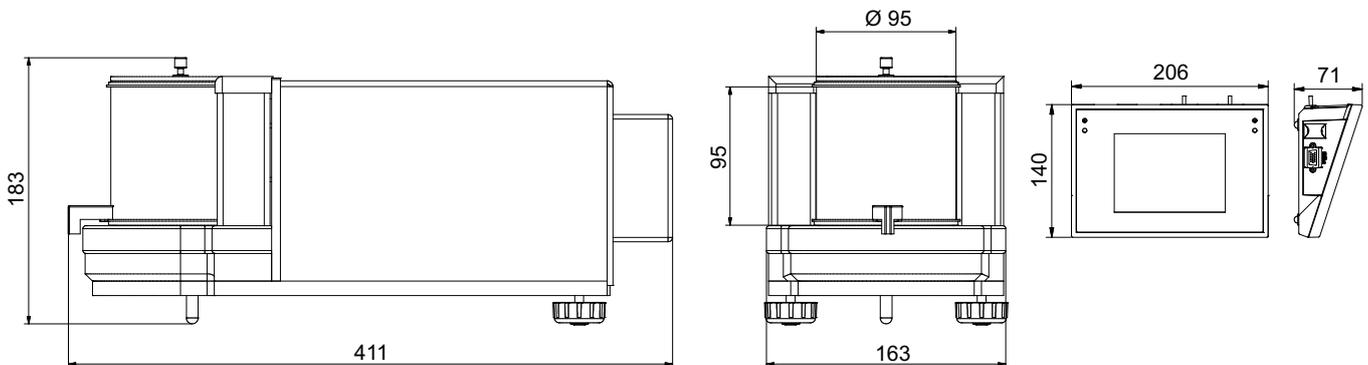
- ✓ Higher resolution – up to 600 million intervals
- ✓ More precise temperature measurement
- ✓ Brand new signal filtering algorithm, enabling selective tuning to actual interfering frequency.
- ✓ Modernized mechanics design - Susceptibility to air drafts reduced six times
- ✓ Cooperation with THB module
- ✓ 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 designed to meet the highest requirements of mass measurements. Balance's weighing chamber is adjusted to calibration of piston pipettes. The non-central 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.

## Dimensions:



## Technical specification:

### MYA 21.3Y.P

Max load	21 g
Readability	1 µg
Repeatability *	1,5 µg (Rt ≤ 0,2g) 2,0 µg (0,2g < Rt ≤ 5g) 2,5 µg (5g < Rt ≤ 11g) 3,0 µg (11g < Rt ≤ 21g)
Linearity	±7 µg
Eccentric load deviation	7 µg
Sensitivity offset	$4 \times 10^{-6} \times Rt$
Sensitivity temperature drift	$1 \times 10^{-6} / ^\circ\text{C} \times Rt$
Sensitivity time drift	$1 \times 10^{-6} / \text{Year} \times Rt$
Minimum weight (USP)	3,0 mg
Minimum weight (U = 1%, k = 2)	0,3 mg
Pan size	∅ 26 mm
Weighing chamber dimensions	∅ 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)

Rt - net weight

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

\*\* Non-condensing conditions

## 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	