



## APPLICATION

4Y series is a modern weighing device, especially useful when the measurement requires perfect accuracy and high speed.

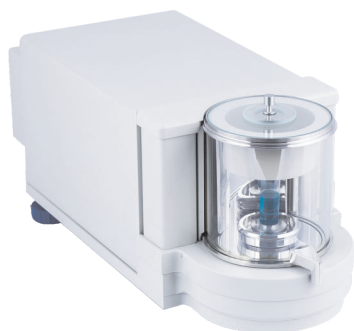
## FEATURES OF 4Y SERIES MICROBALANCE

REPEATABILITY (SD) **<1d**      MEASUREMENT DURATION **<5 s.**           **ETHERNET**



### MYA 21.4Y.P

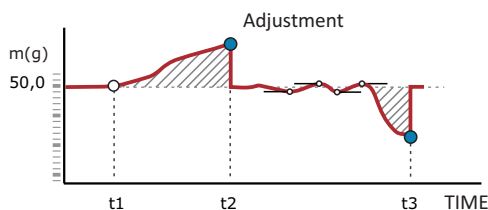
(control of piston pipettes volume)



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## ACCURACY

Measurement accuracy is guaranteed with an adjustment procedure carried out using an internal adjustment weight. This fully automatic process is controlled by a module intended to diagnose ambient conditions change (on-line). Adjustment processes (internal and external) can be performed in accordance with a specially designed schedule.



## FUNCTIONALITY

4Y series microbalance is an optimized modern device which features an option of automatic level control (Level SENSING) as one of numerous functions.

The practical effect of balance customization are individual user profiles and gradable permission levels for access to balance menu.

Programmable proximity sensors offer wide range of possibilities: weighing chamber control, zeroing, tarring, printout.

Several functions such as differential weighing facilitate multi-stage mass control of one and the same sample subjected to various processes. Pipettes calibration function is an ergonomic tool designed to calibrate and control piston pipettes with the use of gravimetric method. MEDIA module, as one of the greatest 4Y series assets, provides the user with an on-screen help and support.

## COMPLIANCE WITH REGULATIONS

Owing to security system and possibility to document the process by means of printouts (standard/editable), the 4Y balance meets requirements imposed by GLP/GMP systems for various industries (pharmacy, petrochemistry, environmental protection).

- PARTS COUNTING
- DOSING
- CHECKWEIGHING
- FORMULATION
- PERCENT WEIGHING [%]
- STATISTICS
- ANIMAL WEIGHING
- DIFFERENTIAL WEIGHING
- PIPETTES CALIBRATION
- SQC
- AUTOTEST
- AUTOMATIC DOOR
- AIR DENSITY CORRECTION
- GLP / GMP PROCEDURES
- INFRARED SENSORS
- AMBIENT COND. MONITORING
- UNITS

## MEDIA module support within a reach of your hand

A sheer novelty of 4Y microbalance is the MEDIA module. With it you can learn using videos providing information on any relevant matter.



MEDIA module is a convenient way allowing you to broaden your knowledge on mass measurement but not exclusively ( recommendations, SOP, reminders, self-designed testing procedures).

## Technical specification:

MYA 21.4Y.P	
Verification	YES
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)	2,4 mg
Minimum weight (U = 1%, k = 2)	0,24 mg
Pan size	∅ 26 mm
Weighing chamber dimensions	∅ 90 × 90 mm
Stabilization time	max 10 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, Wireless Module
Audio module	YES (voice messages support)
Video support	YES (videos and multimedia instructions)
Manual on screen	YES
IN / OUT	4 in / 4 out (digital)
Packaging size	660×660×455 mm
Net weight/Gross weight	9,1 kg / 16,6 kg
<b>Ambient conditions:</b>	
Operating temperature	+10 ° ÷ +40 °C
Operating temperature change rate	±0,3 °C/h (±1 °C/8h)
Relative humidity	40% ÷ 80%
Relative humidity change rate	±1%/h (±4%/8h)

Rt - net weight

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

\*\* Non-condensing conditions

## Accessories:

Antivibration table for microbalance	Antistatic ionizer DJ-03
Professional 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
R-LAB computer software	Bar code scanner
REC-FS computer software	Cable RS 232 (scale - computer) "P0108"
Pipettes computer software	Cable RS 232 (scale, Epson, Citizen printer) "P0151"