



# 4Y Series Laboratory Balances

Outstanding quality, the highest accuracy and excellent throughput plus comfort of operation in advanced mass measurement processes of a professional class.

5.7" colour touch screen ensures perfect readability and clear information arrangement.

Intuitive menu is a guarantee for convenience, simplicity of operation and easy access to numerous applications and functions of the weighing instrument. Graphic interface offers screen customization option, the user can smoothly adapt it to his/her own preferences.

The modern processor is a promise of new possibilities when it comes to operation speed and short time of result stabilisation at a respective repeatability. Use of up-to-date production technology means maximum readability even in case of utmost unfavourable conditions.

# Home screen

- A Set working mode and profile
- B Logged-in user info
- C Date, time, connection, battery state etc.
- Weighing result window
- E Load bar graph
- F Checkweighing bar graph (thresholds)
- G Ambient conditions pictograms
- H Configurable additional information field
- Quick access buttons (editing option)
- Proximity sensors (operation optimization)





# **Reliable Adjustment System**

Internal adjustment system guarantees the best accuracy, minimized linearity errors and reliable measurement results for the whole weighing range.

# **Smart Min Weight**

Smart Min Weight assures automatic adjustment of range resolution to the measured mass and improves the value of the minimum weight parameter by 30%.

# The highest repeatability and compliance with USP

The highest weighing accuracy and perfect repeatability plus compliance with USP requirements stand for a brand new mass measurement quality.

# New Possibilities of Data Management

The scale's expanded memory enables weighing data to be stored in the form of advanced reports and images of time and statistical graphs.

## Flexibility of Use

Wireless communication between the terminal and the weighing instrument facilitates operating the balance that is placed inside laminar flow hoods and fume cupboards.

### **Mobile Control**

Standard Wireless Connection means possibility of transfer of data between the balance and a mobile device with iOS and Android system.

### **Data Safety**

ALIBI memory is a guarantee of safety and automatic record of measurements, it also offers possibility to analyse the saved data.

# **4Y Series**

## **Extensive Functionality**

Fast range of in-built functions and working modes makes the 4Y balance a solution intended for advanced weighing processes.

- Parts counting
- Dosing
- -OK+ Checkweighing
- Formulations
- \_\_\_\_ Statistics
- Animal weighing
- O Differential weighing
- % Percent weighing
- **SQC** Statistical quality control
- Autotest
- P Density determination
- Nipette calibration
- Filter weighing
- Internal adjustment
- GLP procedures
- Automatic doors
- Proximity sensors
- Ambient conditions measurement
- Movable fine range
- Cooperation with titrators
- Replaceable units
- Multilingual menu





# Ultra-Micro and Microbalances

Advanced professional microbalances for fast and precise measurement of small mass with the highest accuracy and second to none repeatability.

Thanks to perfect weighing parameters these instruments are intended for the most demanding laboratory processes. They are offered in few variants different one from another in terms of functionality and the mechanical design of the weighing chamber.



### **UYA 4Y PLUS**

 $d = 0.1 \mu g \mid Max = 2.1 - 6.1 g$ 

### **MYA 4Y PLUS**

 $d = 1 - 10 \mu g \mid Max = 0.8 - 52 g$ 

- Cylindrical weighing chamber
- Automatic doors
- Automatic levelling



### XA 4Y.M.A PLUS

 $d = 1 - 5 \mu g \mid Max = 6 - 52 g$ 

- · Spacious weighing chamber
- Free access to the weighing pan
- Automatic doors
- Antistatic ionizer
- Automatic levelling



### UYA 4Y

 $d = 0.1 \mu g \mid Max = 2.1 - 6.1 g$ 

### MYA 4Y

 $d = 1 - 10 \mu g \mid Max = 0.8 - 52 g$ 

- Cylindrical weighing chamber
- Automatic doors



### XA 4Y.M PLUS

 $d = 1 - 5 \mu g \mid Max = 6 - 52 g$ 

- Spacious weighing chamber
- Free access to the weighing pan
- Internal glass shelf (option)



# **Analytical Balances**

Highly precise and reliable analytical balances of perfect repeatability and measurement precision intended for advanced weighing processes in the laboratory.

Spacious weighing chamber facilitates free access wto a weighing pan and makes it convenient to weigh samples in laboratory vessels.



### **XA 4Y.A PLUS**

 $d = 0.01 - 0.1 \text{ mg} \mid \text{Max} = 52 - 520 \text{ g}$ 

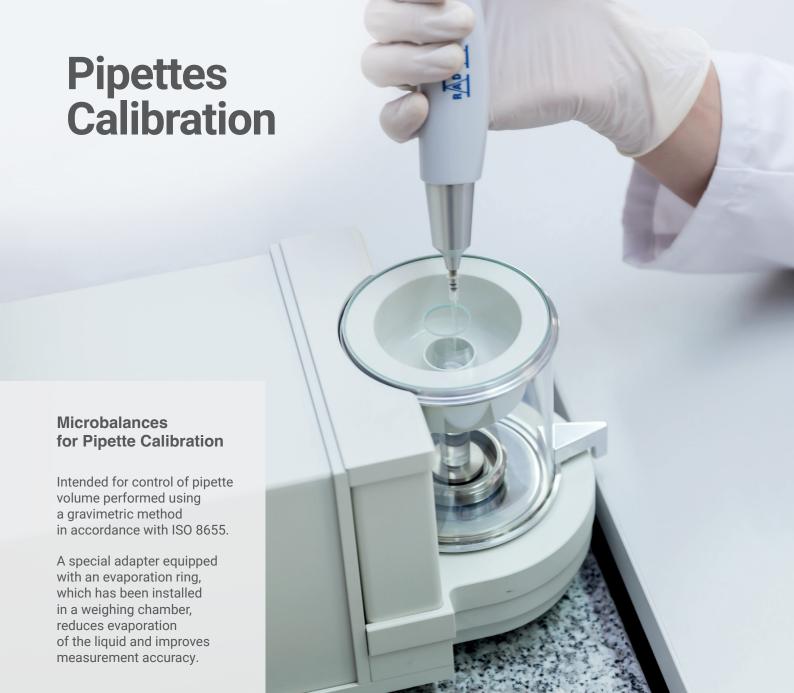
- Spacious weighing chamber
- Free access to the weighing pan
- Automatic doors
- Antistatic ionizer
- · Automatic levelling



### **XA 4Y PLUS**

 $d = 0.01 - 0.1 \text{ mg} \mid \text{Max} = 52 - 520 \text{ g}$ 

- · Spacious weighing chamber
- Free access to the weighing pan
- Internal glass shelf (option)





## **MYA 4Y.P PLUS**

 $d = 1 \mu g \mid Max = 21 g$ 

- Cylindrical weighing chamber
- Automatic doors
- Automatic levelling
- Built-in adapter for pipette calibration



# **MYA 4Y.P**

 $d = 1 \mu g \mid Max = 21 g$ 

- · Cylindrical weighing chamber
- Automatic doors
- Built-in adapter for pipette calibration



## XA 4Y.M.A.P PLUS

 $d = 1 - 5 \mu g \mid Max = 6 - 52 g$ 

- Spacious weighing chamber
- Free access to the weighing pan
- Automatic doors
- Antistatic ionizer
- Automatic levelling
- Automatic adapter for pipette calibration





# **UYA 4Y.F PLUS**

 $d = 0.1 \mu g \mid Max = 2.1 g$ 

### **MYA 4Y.F PLUS**

 $d = 1 \mu g \mid Max = 5,1 g$ 

- · Special chamber for filter weighing
- Automatic levelling



### UYA 4Y.F

 $d = 0.1 \mu g \mid Max = 2.1 g$ 

### **MYA 4Y.F**

 $d = 1 \mu g \mid Max = 5.1 g$ 

· Special chamber for filter weighing



### XA 4Y.F

 $d = 0.01 \text{ mg} \mid \text{Max} = 52 - 110 \text{ g}$ 

- Spacious weighing chamber
- Free access to the weighing pan
- Internal draft shield
- Pan for large size filter weighing



# Ultra-micro and Microbalances for Weighing Stents

Stent weighing balances, depending on the model, offer automated operation and unsurpassed accuracy through the use of dedicated trays, applicator, additional cover or antistatic ionizer.



# **AK-5/100 STENT**

 $d = 0.1 \mu g \mid Max = 5.1 g$ 

- Unsurpassed accuracy d = 0.1 μg
- Automatic operation
- Weighing of the entire sample series
- Dedicated weighing pan
- Spacious chamber



### XA 4Y.M.A PLUS STENT

 $d = 1 \mu g \mid Max = 6 g$ 

- Reading accuracy d = 1 μg.
- Spacious chamber
- Easy to clean
- Dedicated trays, lids and applicator
- Integrated antistatic ioniser

# **Ergonomics and Comfort of Operation**



### **Automatic Doors**

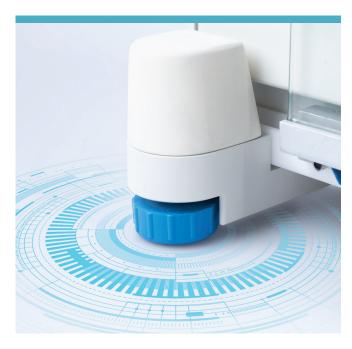
System of automatic control of weighing chamber doors allows to define how wide the door is to be open. The system does not generate any vibrations that could affect the measurement.

Doors open/close function may be run touch-free upon assigning it to respective proximity sensors.



# Levelling

The 4Y series balances feature solution enabling easy balance levelling and ensuring stability during the operation. The most advanced balances equipped with Reflex Level System provide fully automatic levelling process. The remaining models are offered with semi-automatic LevelSENSING system. Both solutions ensure high precision and can be controlled online.



# **Reflex Level System**

Fully automatic levelling system is a guarantee of balance stability. The solution includes ground tilt test, whereas constant monitoring of the level protects the device against level deviation.



## LevelSENSING System

LevelSENSING is asemi-automatic levelling system facilitating level adjustment via on-screen prompts, it provides information on deviation in accordance with GLP and GMP. The system measures ground tilt and performs constant monitoring of the balance level.

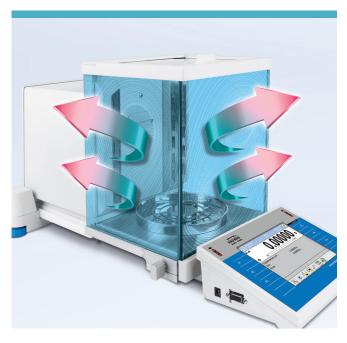
# **Touch-Free Operation**

Two in-built proximity sensors offer touch-free access to selected operations. With this, number of actions to-be-taken by the operator gets reduced.

Each sensor can be assigned with any freely selected action (e.g. door open/close, taring, zeroing, etc.).



# **Innovative Functional Solutions**



# **Fully Antistatic Weighing Chamber**

Antistatic coating of the glass panes facilitates discharge of electrostatic charges from the weighing chamber. This solution effectively eliminates unfavourable effect exerted by the electrostatics onto the weighing result.



# **Innovative System of Pressure Equalization**

Drastic change of pressure in the weighing chamber may be a cause of indication errors. Innovative solution of pressure equalization minimizes potential errors which guarantees stable measurement and correct indications.

### **Antistatic Ionizer**

The antistatic ionizer, due to compensation of positive and negative ions, neutralizes electric charges inside the weighing chamber upon placing the sample in it.

lonizer operation is signalled via a LED diode.





## Video-Guides and On-Screen Manuals

The 4Y series thanks to "Media" module provides the user with a complete support when it comes to balance operation. Easy accessed context help makes operation of selected functions and applications easier.



# **New Technological Solutions**

Cutting-edge technologies and numerous proprietary manufacturing solutions guarantee the top quality of electronic components which ensures reliability during everyday operation, accurate indications and perfect repeatability parameters.

# Disassembly of the Weighing Chamber

Latch-type disassembly system enables uncomplicated and fast removal of panes, all this toolfree.

The system facilitates maintenance of chamber panes and components and makes it easier to keep the device clean even when using it intensively.

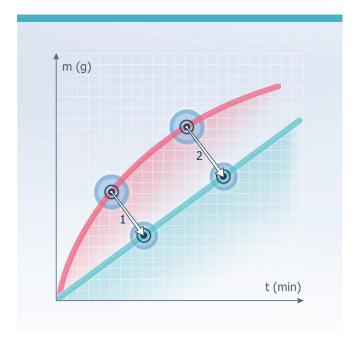


# Optimization in the Laboratory



# Internal Adjustment

Automatic adjustment is a guarantee of accuracy for every single weighing process. It takes place either in specified time intervals or as a result of temperature change. New schedule option enables users to plan adjustment time, type (internal, external) and mass standard using which the adjustment is to be carried out.



# 2-Point Adjustment System

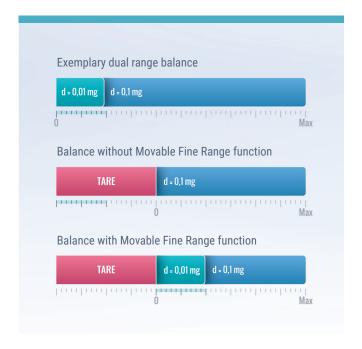
The new 2-point adjustment system guarantees the best accuracy, minimized linearity errors and reliable measurement results for the whole weighing range. It monitors accuracy of balance indications, ensuring precise weighing even at varying ambient conditions.

# Measurement Speed and Precision

The 4Y balances have been equipped with a modern processor thus they offer perfect operation speed and short time of result stabilisation at the right repeatability.

Automatic control of weighing chamber opening ensures fast and easy access to the weighing pan. Now sample mass determination takes just a few seconds!







## **Movable Fine Range**

Dual range balances of 4Y series feature Movable Fine Range function which regardless of the used tare ensures the highest accuracy of small sample weighing.

The function operation is fully automatic. With Movable Fine Range it is possible to measure weight of milligram samples in a container of several dozen grams

# **Load Bar Graph**

The load bar graph presents in percent the amount of load in relation to the maximum balance capacity.

When sample mass exceeds the set threshold, Zoom function runs automatically, as a result a particular area is magnified and displayed within the whole width of the bar graph. This allows the user to observe sample mass changes clearly.



# Compliance with USP Conventions



# **Smart Min Weight**

Smart Min Weight system provides automatic adjustment of screen resolution to the measured mass range and guarantees the best possible values of the minimum weight.



# 21 CFR Part 11 Compliance Module

The 4Y series balances are complaint with 21 CFR part 11 regulations and with provisions of EU GMP part 4, annex 11. They offer complete data protection and are equipped with a number of security and monitoring functions that control work of particular operators.



# **Connection and Communication**



### **Communication Interfaces**

Functionality of the 4Y series balances is expanded via communication interfaces (USB, Ethernet, RS-232, Wi-Fi®, IN/OUT) enabling reliable and fast communication with external devices or portable data carriers.



### RadConnect - Mobile Balance Control

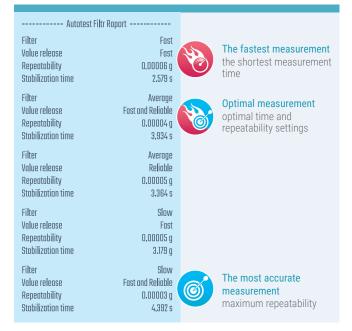
RadConnect application ensures two-directional communication between the 4Y series balances and a mobile device with iOW or Android system.

It enables transfer of data from a balance (measurement result, statistical data, etc.) directly to a tablet or a smartphone. Using RadConnect it is possible to run tare or zero function remotely and to record the weighing results.



# Weighing Process Control





## Autotest Filter - Balance Settings Diagnostics

4Y series balances offer vast range of options enabling optimization of settings. This, right next to other useful features, facilitates adaptation of the balance onto the workstation. With the help of Autotest Filter function the user will find it easy to configure such vast amount of parameters.

The Autotest Filter tests all possible setting combinations automatically providing weighing time and repeatability values for each of them. Upon competed procedure, the balance displays the results of tested settings and the user can select the most optimal configuration.



# **Databases**



# Databases as a Support of the Weighing Process

4Y series balances feature complex databases (users, products, printouts, formulations, packagings, etc.) that allow effective and complete data management.

The database user can record advanced reports and graphs presenting weighing series and images of time and statistics graphs. Size of particular databases is dynamically shared within 32 GB memory flash.



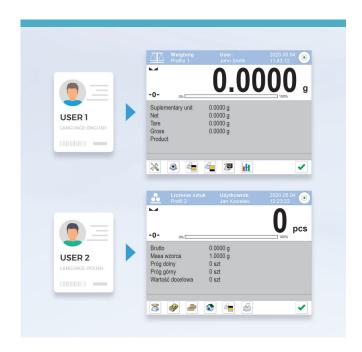
# **Data Synchronization and Archiving**

The 4Y series facilitates transfer of data between balances. Import and export options enable easy data management, copying and archiving. It allows to synchronise the databases, user profiles and balance-stored data.

USB interface allows for fast copying of data to portable memory storage.



# Security and Protection



# **Balance Setting Customization**

Customization of balance settings allows to adapt the device functionality to user preferences and the performed measurement type.

Each user may be assigned with an individual profile with a preferred language version of the interface, selected quick access buttons, operation mode settings, filters, printout types etc.



### **Access Control and Data Protection**

Safe use of one balance by numerous users is possible due to varying access rights to particular functions and individual permission levels.

Four permission levels allow to carefully supervise user operation and guarantee protection of any particularly crucial data. Access to each level is protected by password.



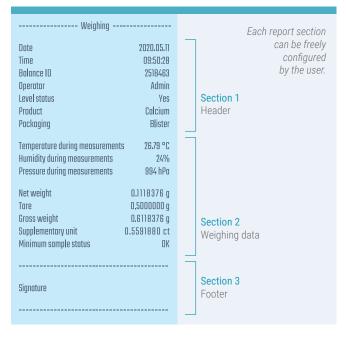
# Reports and Printouts



# **Weighing Process Documentation**

On 4Y series balances each weighing process ends with generation of a respective report which is next saved to a report database.

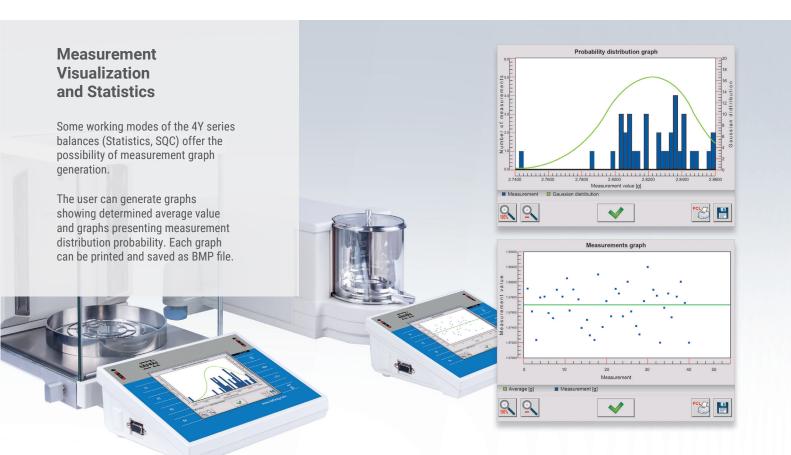
Access to the report database allows the user to preview, print, export, archive and freely configure reports on all carried out weighings.



# **Adaptable Printout Configuration**

4Y series offer two types of printouts. The user can generate standard printouts using fixed templates or non-standard printouts of custom design.

The used solution enables free exchange of printouts and labels between balances (TXT or LB files).



# **Analysis and Statistics**



	(	<u> </u>	
perator Admir	1	<b>V</b>	
roduct Calcium	1	Net	0.3569
tart date 2020.05.11 09:50:28		Measurement 6	
nd date 2020.05.11 09:54:51		Net	0.3687
atch number 1\a		Measurement 7	
atch quantity 10		Net	0.3565
ominal mass 0.361 g		Measurement 8	
imit T2- 0.361 g 10%		Net	0.3687
imit T1- 0.01805 g 5%		Measurement 9	
imit T1+ 0.01805 g 5%		Net	0.3681
imit T2+ 0.361 g 10%	)	Measurement 1	
Measurement 1		Net	0.3679
et 0.36618 q		NGL	0.00/0
Measurement 2		Number of T2- errors	1 10
et 0.36937 o	,	Number of TI- errors	1 10
Measurement 3		Number of T1+ errors	1 10
et 0.38518 d		Number of T2+ errors	0 (
Measurement 4		Average	0.36315
		Standard deviation	0.014872
5,521,73	1		
Measurement 5		Sianature	
•		aignaturo	

# **SQC - Automatic Analysis of Statistical Data**

SQC module is a perfect tool for precise control of sample mass. The analysis can be carried out at the production stage (warning and critical limits) and during other control processes.

Precise comparison of current sample mass versus the reference value is possible due to automatic scaling of checkweighing thresholds.

Such solution allows fast checkweighing with optimum accuracy.

Innovative SQC Reports tool stores information regarding carried out tests, test ID, names, statistical data, information etc. The stored information is recorded in a database.

# Differential Mass Measurement: Analysis of Sample Mass Variation

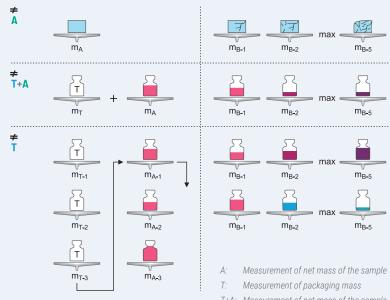
"Differential Weighing" module analyses sample mass change, which is useful especially when the sample is subjected to numerous processes.

Thanks to high flexibility, the module enables use of various measuring techniques (e.g. many different methods of measurement of samples, even those that are grouped into one series).

Ambient conditions prevailing at the workstation during the measurement performance are registered automatically. Comparison of this information in various cycles may prove compliance with standard requirements.

### Measurement Methods

A method is a sequence of steps. The operator can select series, samples or weighing cycles (e.g. combined procedure).



T+A: Measurement of net mass of the sample, measurement of a sample in a packaging. Cycle: packaging measurement, taring, sample measurement.

# Software and Accessories

### **PC Software**



#### R-LAE

Collecting measurements, statistical analysis, graphs and reports.



### E2R Weighing Records

Support of labelling and part counting process, registering and archiving of weighings, database synchronisation, reports and graphs.



### Label Editor R02

Label template designing, label printout.



#### **Pipettes**

Calibration of single-channel and multi-channel pipettes of fixed/variable volume, determination of measurement errors, compliance with ISO 8655.



### Audit Trail Reader

Register of user activity.



### Parameter Editor

Online preview of the balance screen, remote balance parameter configuration, import and export of the parameters to the balance.



### R.Barcode

Display of data read by a barcode scanner.



#### **RAD-KEY**

Collecting balance-performed measurements.



### RADWAG Development Studio

A set of advanced IT development tools.



#### LabView Driver

Support of RADWAG-manufactured weighing instru- ments operating in LabView environment.



### **RADWAG Connect**

Connection of weighing instruments, balance function, LAN communication and record measurements to a program.



### RADWAG Remote Desktop

Remote control of a balance via a computer, a telephone or a tablet.

# **Accessories and Additional Equipment**



#### Anti-Vibration Weighing Tables

Stable weighing workstations for precise measurements in the laboratory.



### Adapters for Pipettes Calibration

Adapters for pipette calibration and for testing piston pipettes using a gravimetric method (intended for selected balance models exclusively).



### **Pipettes**

Automatic piston pipettes of adjustable volume are intended for fast dosing of liquid with the highest accuracy.



### Laboratory Ware Holders

Laboratory holders for convenient and safe fixing of small containers of both typical and atypical shapes.



### Ambient conditions sensors

The THB sensor for measurement of temperature, humidity and atmospheric pressure at the workstation.



### **Under-Pan Weighing Station**

For weighing samples of non-standard shape, size or magnetic characteristics and for density determination.



### Automatic Feeder

Online preview of the balance screen, remote balance parameter configuration, import and export of the parameters to the balance.



### LCD

Additional LCD on a stand, housed in a plastic casing.



### Power Supply with a Battery

Intended for powering the balance in case the connection to the mains is impossible. Equipped with an in-built charger.



#### Receipt Printers

Dot matrix printer intended for printout of receipts in weighing systems.



### Barcode Scanners

Vast range of barcodes intended for weighing systems.



# Cables for Printers and Computers

Cables connecting the weighing instrument with a computer or any peripheral device.



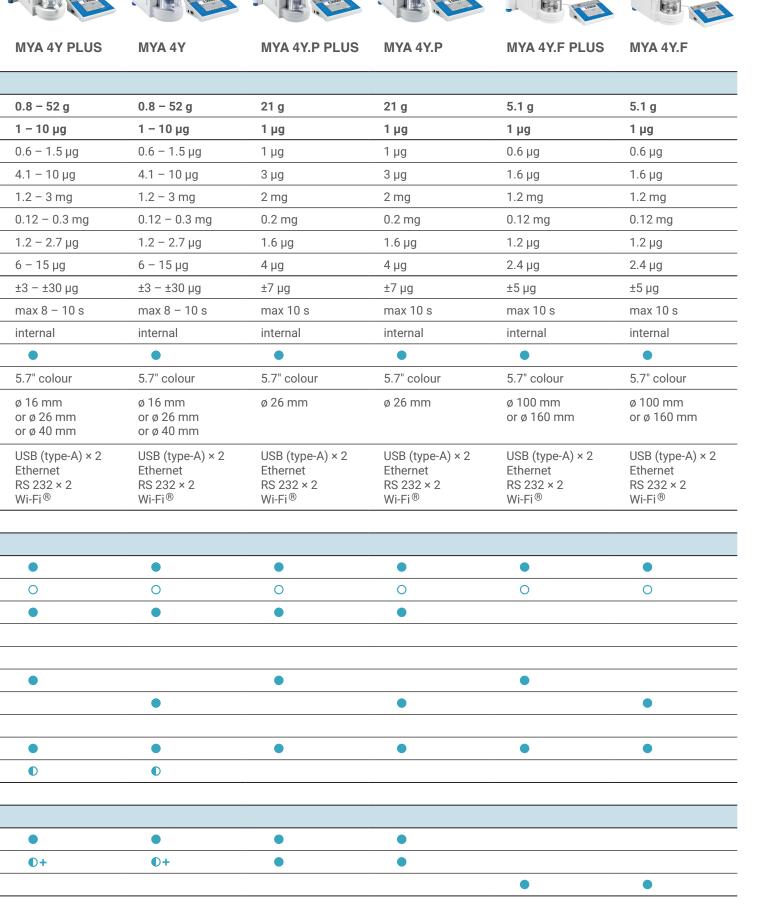






		UYA 4Y PLUS	UYA 4Y	UYA 4Y.F PLUS	UYA 4Y.F
Technical dat	ta				
Maximum cap	pacity [Max]	2.1 – 6.1 g	2.1 – 6.1 g	2.1 g	2.1 g
Readability [d	[1]	0.1 µg	0.1 μg	0.1 μg	0.1 μg
	Repeatability (5% Max)*	0.15 – 0.25 μg	0.15 – 0.25 μg	0.15 µg	0.15 μg
Standard values	Repeatability (Max)*	0.35 – 0.5 μg	0.35 – 0.5 μg	0.35 µg	0.35 μg
	Minimum weight (USP)	0.3 - 0.5 mg	0.3 - 0.5 mg	0.3 mg	0.3 mg
	Minimum weight (U=1%. k=2)	0.03 - 0.05 mg	0.03 - 0.05 mg	0.03 mg	0.03 mg
Permissible	Repeatability (5% Max)*	0.35 – 0.4 μg	0.35 – 0.4 μg	0.35 µg	0.35 μg
values	Repeatability (Max)*	0.6 – 0.8 μg	0.6 - 0.8 μg	0.6 µg	0.6 µg
Linearity		±1.5 μg	±1.5 μg	±1.5 μg	±1.5 μg
Stabilization t	time	10 - 20 s			
Adjustment		internal	internal	internal	internal
Verification		•	•	•	•
Display		5.7" colour	5.7" colour	5.7" colour	5.7" colour
Weighing pan	n dimensions	ø 16 mm	ø 16 mm	ø 50 mm	ø 50 mm
Communicati	ion Interfaces	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi®			
Functionality					
Touch screen		•	•	•	•
Wireless term	ninal	0	0	0	0
Automatic do	oors	•	•		
Touch-free op	peration				
Internal glass					
Reflex Level S	System	•		•	
LevelSENSING	G System		•		•
Antistatic ion	izer				
2-Point Adjus	tment	•	•	•	•
Movable Fine	Range				_
Intended use					
Mass measur	rement	•	•		
Pipette calibra	ation				
Filter weighin	g			•	•

- O Available as an option
- Available for all (or most) modelsAvailable for selected models only
- + Available upon purchase of a dedicated accessory (adapter for pipette calibration)









XA 4Y.M.A PLUS

XA 4Y.M.A.P PLUS

XA 4Y.M PLUS

		XA 4Y.M.A PLUS	XA 4Y.M.A.P PLUS	XA 4Y.M PLUS
Technical data				
Maximum capacity [M	ax]	6.1 – 52 g	6.1 – 52 g	6.1 – 52 g
Readability [d]		1 – 5 μg	1 – 5 μg	1 – 5 μg
	Repeatability (5% Max)*	1 – 2.4 μg	1 – 2.4 μg	1 – 2.4 μg
Standard	Repeatability (Max)*	2.5 – 6 μg	2.5 – 6 μg	2.5 – 6 μg
values	Minimum weight (USP)	2 – 4.8 mg	2 – 4.8 mg	2 – 4.8 mg
	Minimum weight (U=1%. k=2)	0.2 – 0.48 mg	0.2 – 0.48 mg	0.2 - 0.48 mg
Darmaia sible values	Repeatability (5% Max)*	1.5 – 3.4 μg	1.5 – 3.4 µg	1.4 – 3.4 μg
Permissible values	Repeatability (Max)*	3 – 8 µg	3 – 8 µg	3 – 8 µg
Linearity		±7 – ±20 μg	±7 – ±20 μg	±7 – ±20 μg
Stabilization time		~ 3.5 s	~ 3.5 s	~ 3.5 s
Adjustment		internal	internal	internal
Verification		•	•	•
Display		5.7" colour	5.7" colour	5.7" colour
Weighing pan dimensi	ons	ø 30 mm	ø 26 mm	ø 50 mm
Communication Interfa	aces	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi <sup>®</sup>	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi®	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi®
Touch screen		•	•	•
Wireless terminal		0	0	0
Automatic doors		•	•	
Touch-free operation		•	•	•
Internal glass shelf				0
Reflex Level System		•	•	•
LevelSENSING System				
Antistatic ionizer		•	•	
2-Point Adjustment		•	•	•
Movable Fine Range		•	•	•
Intended use				
Mass measurement		•		•
Pipette calibration		<b>0</b> +	•	<b>0</b> +
Stents weighing				
Filter weighing				

Available for all (or most) models

Available for selected models only

O Available as an option

<sup>+</sup> Available upon purchase of a dedicated accessory (adapter for pipette calibration)











XA 4Y.A PLI	JS
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XA 4Y PLUS

XA 4Y.F

XA 4Y.M.A STENT

**AK-5/100 STENT** 

52 - 520 g	52 - 520 g	52 - 110 g	6 g	5.1 g
0.01 – 0.1 mg	0.01 – 0.1 mg	0.01 mg	1 μg	0.1 μg
0.005 – 0.07 mg	0.005 – 0.07 mg	0.007 mg	1.3 µg	0.8 µg
0.01 – 0.18 mg	0.01 – 0.18 mg	0.01 - 0.02 mg	3.5 µg	1 μg
10 – 140 mg	10 – 140 mg	14 mg	2.6 mg	0.8 mg
1 – 14 mg	1 – 14 mg	1.4 mg	0.26 mg	0.08 mg
0.012 - 0.12 mg	0.012 - 0.12 mg	0.01 mg	2 μg	1.5 µg
0.02 - 0.25 mg	0.02 - 0.25 mg	0.02 - 0.03 mg	5 μg	2 μg
±0.03 - ±0.5 mg	±0.03 - ±0.5 mg	±0.03 - ±0.06 mg	±9 μg	±5 μg
~ 2.5 - 4 s	~ 2.5 - 4 s	~ 5 - 30 s	~ 3.5 s	30 s
internal	internal	internal	internal	internal
•	•	•	•	
5.7" colour	5.7" colour	5.7" colour	5.7" colour	5.7" colour
ø 90 mm or ø 100 mm	ø 90 mm or ø 100 mm	210 × 254 mm and ø 90 mm	Didicated to stents	Dedicated to stents
USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi®	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi <sup>®</sup>	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi®	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi®	USB (type-A) × 2 Ethernet RS 232 × 2 Wi-Fi®
•	•	•	•	•
0	0	0	0	0
•			•	
•	•	•	•	•
	0			0
•	•		•	•
		•		
•			•	
•	•	•	•	•
•	•		•	•
	•	•		
• •	<b>0</b> +		•	

Repeatability is expressed as standard deviation from 10 loadings of weight (in stable laboratory conditions). Wi-Fi $^{(B)}$  is a registered trademark of Wi-Fi Alliance.



