

ELLIPSIS Y Laboratory Balances 5

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Liquid

Weighing

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Supplementary unit

Gross Tare Product www.radwag.com

Wed. 10.02.2022 093

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980.1 hPa 0

1.158 Kg/m3 28 Air De

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UYA 5Y Ultra-microbalances Microbalances MYA 5Y

[d] down to 0.1 µg [Max] up to 6.1 g



UYA 5Y Ultra-microbalances

MYA 5Y Microbalances

- World's lowest reading unit [d] 0.1 μg
- Weighing range up to [Max] 6.1 g
- The lowest minimum weight [USP] 0.3 mg
- Automatic, draft-proof weighing chamber
- Fully automatic levelling system
- Wide variety of applications



UYA 5Y.F Ultra-microbalances for filters

MYA 5Y.F Ultra-microbalances for filters



MYA 5Y.P Microbalances for pipette calibration

XA 5Y.M Microbalances

[d] down to 1 µg [Max] up to 53 g



XA 5Y.M.A Microbalances

- Reading unit [d] 1 µg
- Spacious weighing chamber: 199 x 157 x 218 mm
- Large weighing pan: ø 30 mm
- Integrated ionizer
- Tool-free disassembly of the chamber







XA 5Y.M.A.S Microbalances for stents

XA 5Y Analytical Balances

[d] down to 0.01 mg [Max] up to 520 g



XA 5Y.A Analytical balances

- Reading unit [d] 0.01 mg
- Minimum weight: 10 mg
- Conditioning shelf
- Open-work weighing pan
- Integrated ionizer
- Tool-free disassembly of the chamber

AP-12.5Y Automatic Device for Multichannel Pipette Calibration



AP-12.5Y

Automatic Device for Multichannel Pipette Calibration

- 12 and 1 channel pipette calibration
- Semi-automatic levelling system
- Fully compliant with ISO 8655
- Environmental condition monitoring
- Tablet as standard

PM 5Y Precision Balances

[d] down to 0.01 g [Max] up to 60 kg



PM 5Y Precision balances

- One of the most innovative balance in the world with [Max] = 20 kg and [d] = 0.01 g
- Large weighing pan: 200 x 185 mm
- Innovative MONOBLOCK® weighing module
- Diagnostic tools in accordance with metrological requirements: sensitivity test
- Wide variety of applications

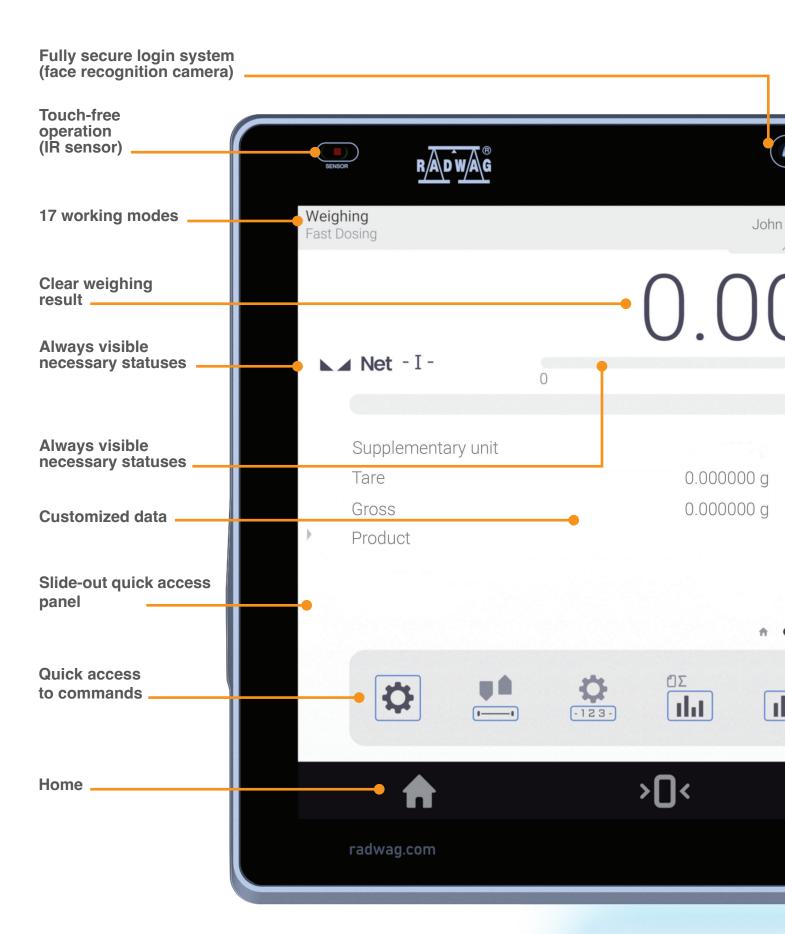
PM 20.5Y



The PM 20.5Y laboratory balance by Radwag is one of the most innovative in the world that can weigh up to 20 kg with 0.01 g readability, using a large 200 x 185 mm weighing pan.

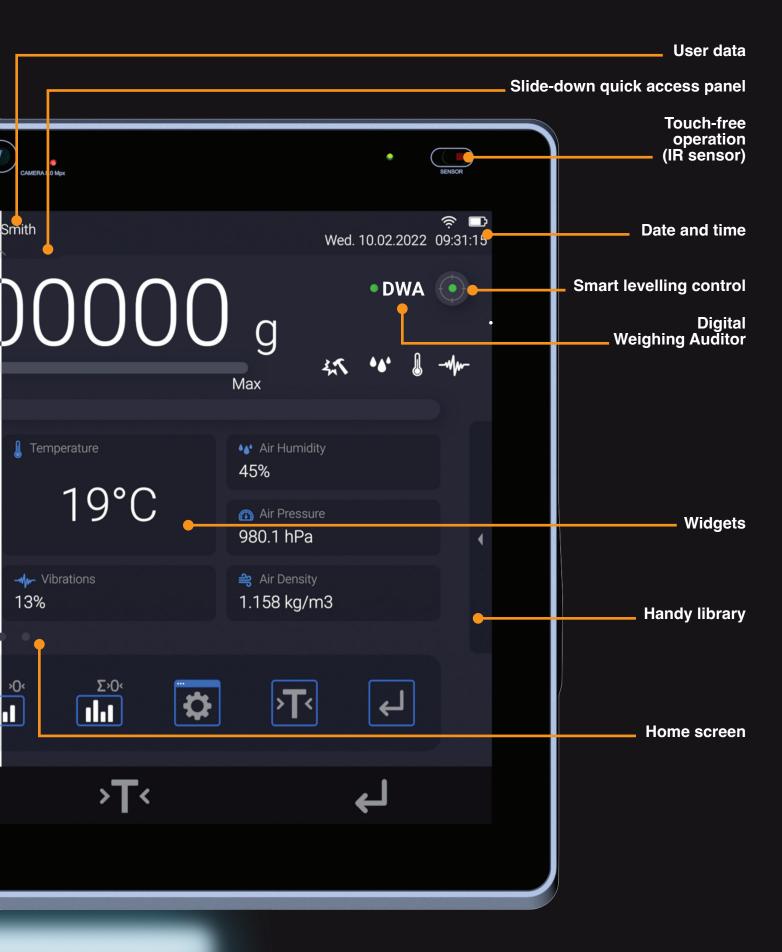
Two Faces

Light mode



of ELLIPSIS

Dark mode



Ambier

Innovative way of user - balance communication.

One look and everything's clear.







nt Light



It couldn't be easier: the backlight colour informs you about status, process results, procedures, or alerts.

- statuses
- process results
- procedures
- alerts



Connecting ELLIPSIS



Quick logout



Discover ELLIPSIS

The lowest minimum weight of 0.3 mg, achievable with modern weighing module.

Such a large chamber, yet still very accurate balance

Work with different labware in a chamber space of 199 x 157×218 mm.

lonizer

Do you have an electrostatic sample that cannot be weighed? The ionizer will neutralize its electrostatic charge.

Give ELLIPSIS a command, and it will carry it out

A set of actions ready to be performed upon detecting a voice command.

Kensington Lock On/Off

Sample weighed? See the measurements on your computer

Available interfaces: 2 x USB-A, USB-C (Free Link), Ethernet, Wi-Fi, Hotspot.

Uncompromising user verification

Fingerprint reader

Tool-free disassembly of the weighing chamber

Contaminated weighing chamber? You don't need any tools to disassemble and clean the ELLIPSIS weighing chamber.



Terminal tilt adjustment

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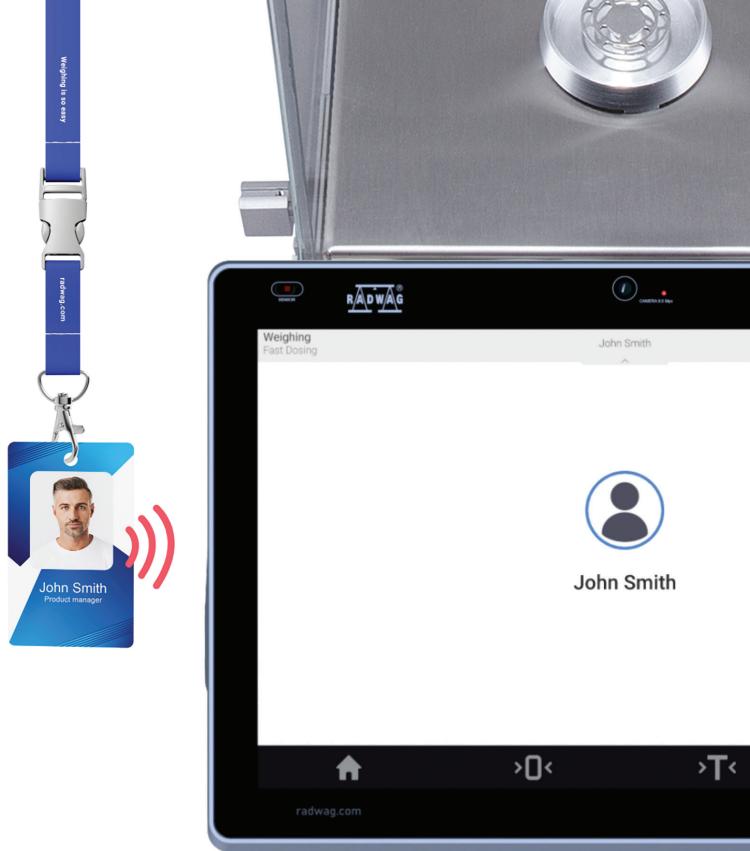
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One look and everything's clear

It couldn't be easier: the backlight colour informs you about status, process results, procedures, or alerts.



RFID

Always the correct choice of a product or ingredient for a formulation.

ELLIPSIS works with RFID tags that can be used to tag your products or formulation ingredients in the database. It can also be used to identify a user.



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Thanks to the hotspot, you can operate the balance on any device previously connected to it. This can be a smartphone, tablet, or computer.

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Air Preasure
980.1 hPa
Air Density
1.158 kg/m3

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Widgets

Always at hand, grouped so that the essentials never slip away.



Up-to-date information on ambient conditions

Weighing Fast Dosing		 Wed. 10.02.2022 0931.1 DWA (•) 	5	
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Supplementary unit Tare Gross Product	0.0000000 g 0.0000000 g	I Temperature	 Air Humidity 45% Air Preasure 980.1 hPa 	4
	• •		Air Density 1.158 kg/m3	
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radwag.com				
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Looking for more than just weighing?





Weighing

Basic working mode that displays the mass of a sample.



Statistics

Real-time statistics determined from carried out weighings.



Pipette calibration

Checking piston pipettes according to customer-specific requirements or ISO 8655.



Parts counting Quick counting of samples of similar mass.



Checkweighing

Control of sample mass in the set min/max thresholds.

Weighing to a target

Percent weighing

Percent mass control.

Density Determining the density of solids and liquids.

Animal weighing

Control of mass change over a set period of time.

Formulations

Weighing of predefined ingredients, according to the order described in the formulation.



Differential weighing

Analysing the change in mass of a single sample over time.



SQC

Statistical mass control with set thresholds.



Peak hold

Control of the maximum mass on the pan.



PGC

Statistical mass measurement in accordance with Packaged Goods Control.



Control of mass standards.

Comparator

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Mass control

Statistical control of samples of similar mass.

Fraction

Statistical control of mass according to fractions.



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Calcium 0.003 g

Good

13%

11.1







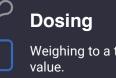












Note down your conclusions

One of ELLIPSIS' innovative features is the ability to add a voice or text note to a series of measurements or a procedure report.

he determined value of the minimum weight for the process: 0.3 mg A 0 9 43 2 7 6 × 2 I 5 84 × TA 4 0/0 3 5 2 # POISKI 0 13 ABC **ELLIPSIS. 5Y Laboratory Balances**

Do you like to analyse data from a series of measurements presented graphically?

The balance gives you this possibility. You can choose between graphs of measurement series, ambient conditions, SQC with thresholds, and Gaussian distribution.





Weighing graph



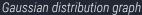














DWA - Digital Weighing Auditor

Have you ever wondered if your balance is ready for work? The Digital Weighing Auditor makes sure it is.

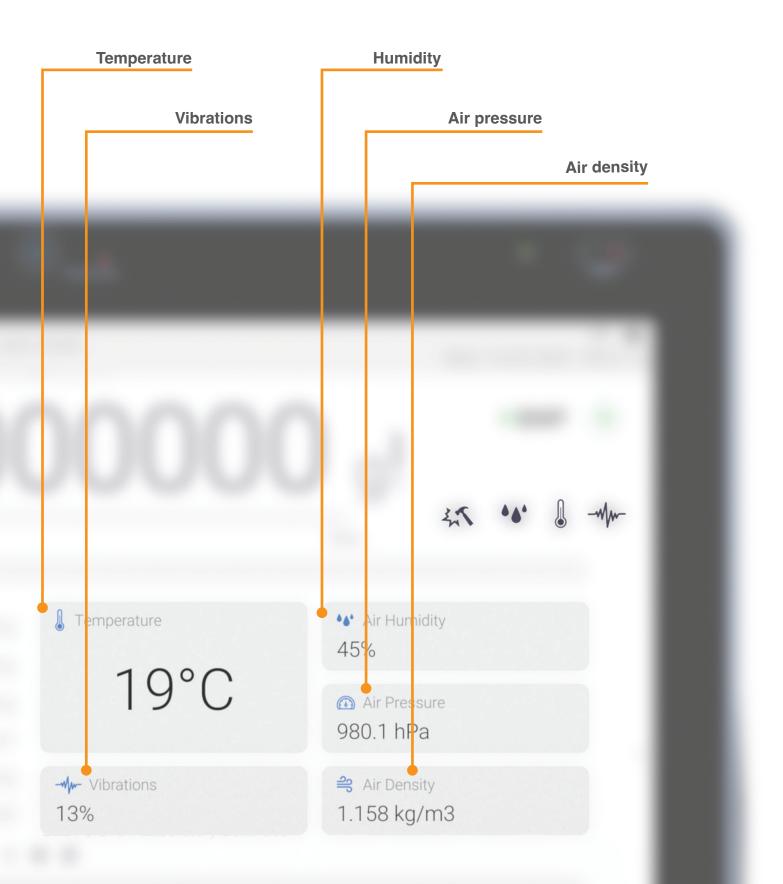
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	radwag.com				

DWA is a system that monitors ambient conditions (temperature, humidity, pressure, and vibration), balance levelling, adjustment, USP compliance, and ionizer operation. It enables air buoyancy compensation in real-time. What is more, it signals the need for a balance inspection or a periodic audit of the balance's accuracy and sensitivity. ELLIPSIS signals the results of the digital audit via Ambient Light, pictograms on the home screen, or a speaker.

CAMERA 8.0 Mpx		• SENSOR		
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	Max			• DWA
Temperature	Air Humidity45%			
19°C	Air Pressure980.1 hPa			
	air Density1.158 kg/m3			
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Are the conditions in your laboratory the best for the balance you have?

ELLIPSIS monitors temperature, humidity, pressure, and vibration. The results are displayed as graphs or a widget on the home screen. Unsuitable conditions for the balance are signalled by DWA. And all of this is recorded in a dedicated database.



What was the value of the previous measurement?

ELLIPSIS always displays the history of the last 20 measurements on the slide-out panel. It is also here where the measurement series ready for e-signature, in accordance with 21 CFR Part 11, can be found.

CAMERA 8.0 Mpx			SENSOR
John Smith		Wed. 02	.02.2022 09:31:15
		Weighing reco	rds
0.0000		2022.01.31 (D) 14:09:38	0.000019 g
	Μ	2022.01.31 (D) 14:09:18	0.000019 g
		2022.01.31 (a) 14:08:55	0.000020 g
0.000000 g	4	2022.01.31 (D) 14:08:42	0.000018 g
0.000000 g 19)°C	2022.01.31 (14:08:12	0.000019 g
Calcium	ç	2022.01.31 (D) 14:07:54	0.000017 g
0.003 g		2022.01.31 (14:07:35	0.000020 g
Good 13%			0.000019 g
↑ ● ●		2022.01.31 (14:06:58	0.000019 g
Σ »0« Σ	Σ-04	2022.01.31 (i) 14:06:39	0.000018 g
		2022.01.31	0.000019 a
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Have you ever failed to record the weighing result?





Don't take our word for it?

With ELLIPSIS, you can get:

- Declaration of conformity
- Calibration certificate
- IQ, OQ, PQ documents
- 21 CFR part 11 qualification
- USP compliance qualification
- Compliance with the latest version of the Pharmacopoeia

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WWW.radwag.com

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21 CFR Part 11

EU GMP Annex 11



- Password strength settings
- Maximum number of incorrect login attempts
- Auto-logout of inactive user
- Permissions for non-logged-in users
- Permissions for electronic signature
- Permissions for databases management
- Creating database backup
- Adding respectively secured users
- Adding and editing databases according to permissions granted
- Replacing paper documents with digital ones

- Highest level of report security
- Separate database with saved reports
- Signature information
- Validation of the electronically signed report
- Comments on the report
- Three validation levels
- Automatic recording of changes in databases
- Audit trail preview
- Export of audit trail data

Do you work in the pharmaceutical industry? Do you need a digital signature? We are offering the laboratory balance which as a standalone fully meets the requirements of 21 CFR Part 11 / EU GMP Annex 11.

Accessories

If you use labware, weigh stents or filters, or want to check your pipette, use the ELLIPSIS accessories available:





Microscale glassware

Stents



Pipette calibration adapters



Filters

Technical Specification



	UYA 5Y	UYA 5Y.F	MYA 5Y	MYA 5Y.F	MYA 5Y.P
Maximum capacity [Max]	2.1-6.1 g	2.1 g	0.8-52 g	5.1 g	5.1 g
Readability [d]	0.1 µg	0.1 µg	1-10 µg	1 µg	1 µg
Repeatability (5% Max)*	0.15-0.2 µg	0.2-0.25 µg	0.6-1.5 µg	0.6 µg	0.6 µg
Minimum weight (USP)	0.3-0.4 mg	0.4-0.5 mg	0.82-3 mg	1.2 mg	1.2 mg
Linearity	±1.5 µg	±1.5 μg	±1.5 µg	±5μg	±5μg
Stabilization time	10-20 s	10-20 s	10-20 s	max 8 s	max 8 s
Adjustment	2-point internal	2-point internal	2-point internal	2-point internal	2-point internal
Weighing pan dmiensions	ø 16 mm	ø 16 mm ø 70 mm for filters	ø 16 mm ø 26 mm ø 40 mm	ø 16mm ø 16mm ø 70mm for filters ø 160mm for filters	or ø 26 mm
Communication interfaces	USB-A × 2 USB-C HDMI Ethernet Wi-Fi [®] Hotspot	USB-A×2 USB-C HDMI Ethernet Wi-Fi [®] Hotspot	USB-A×2 USB-C HDMI Ethernet Wi-Fi [®] Hotspot	USB-A × 2 USB-C HDMI Ethernet Wi-Fi [®] Hotspot	USB-A × 2 USB-C HDMI Ethernet Wi-Fi [®] Hotspot

Scan the QR code

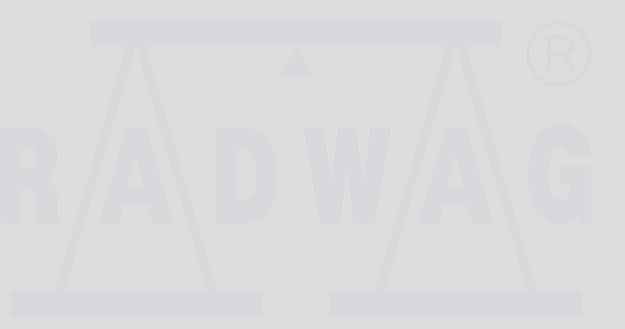
to see the ELLIPSIS offer





XA 5Y.M	XA 5Y.M.P	XA 5Y.M.S	XA 5Y	PM 5Y	AP-12.5Y
6.1 - 53 g	6 - 53 g	6 g	52-520 g	10-120 kg	21 g
1 µg	1 µg	1 µg	0.01-0.1 mg	0.01-0.2 g	0.01 mg
1.2 µg	0.8 µg	1.3 µg	0.005-0.07 mg	0.004-0.06 g	1.3 µg
2.4 mg	2 mg	2.6 mg	10-140 mg	0.82-12 g	2.6 mg
±7 μg	±5μg	±9 µg	±0.06-0.1 mg	±0.03-0.6 mg	±0.02 mg
max 10 s	max 10 s	max 10 s	1.3-4 s	3 s	~3.5 s
2-point internal					
ø 30 mm	Intended	ø 100 mm	ø 100 mm	200 × 185 mm	12-channel
	for stents	or ø 160 mm	ø 160 mm	350 × 260 mm	and 1-channel case
				400 × 500 mm	with evaporation ring
USB-A×2	USB-A×2	USB-A×2	USB-A×2	USB-A×2	USB-A×2
USB-C	USB-C	USB-C	USB-C	USB-C	USB-C
HDMI	HDMI	HDMI	HDMI	HDMI	HDMI
Ethernet	Ethernet	Ethernet	Ethernet	Ethernet	Ethernet
Wi-Fi [®]					
Hotspot	Hotspot	Hotspot	Hotspot	Hotspot	Hotspot

*Repeatability is expressed as a standard deviation from 10 weighing cycles. Wi-Fi® is a registered trademark of Wi-Fi® Alliance.





Scan the QR code

to see the ELLIPSIS offer

