ELLIPSIS

5Y Laboratory Balances

www.radwag.com



Two Faces

Light mode

Fully secure login system (face recognition camera)

Touch-free operation (IR sensor)

17 working modes

Clear weighing result

Always visible necessary statuses

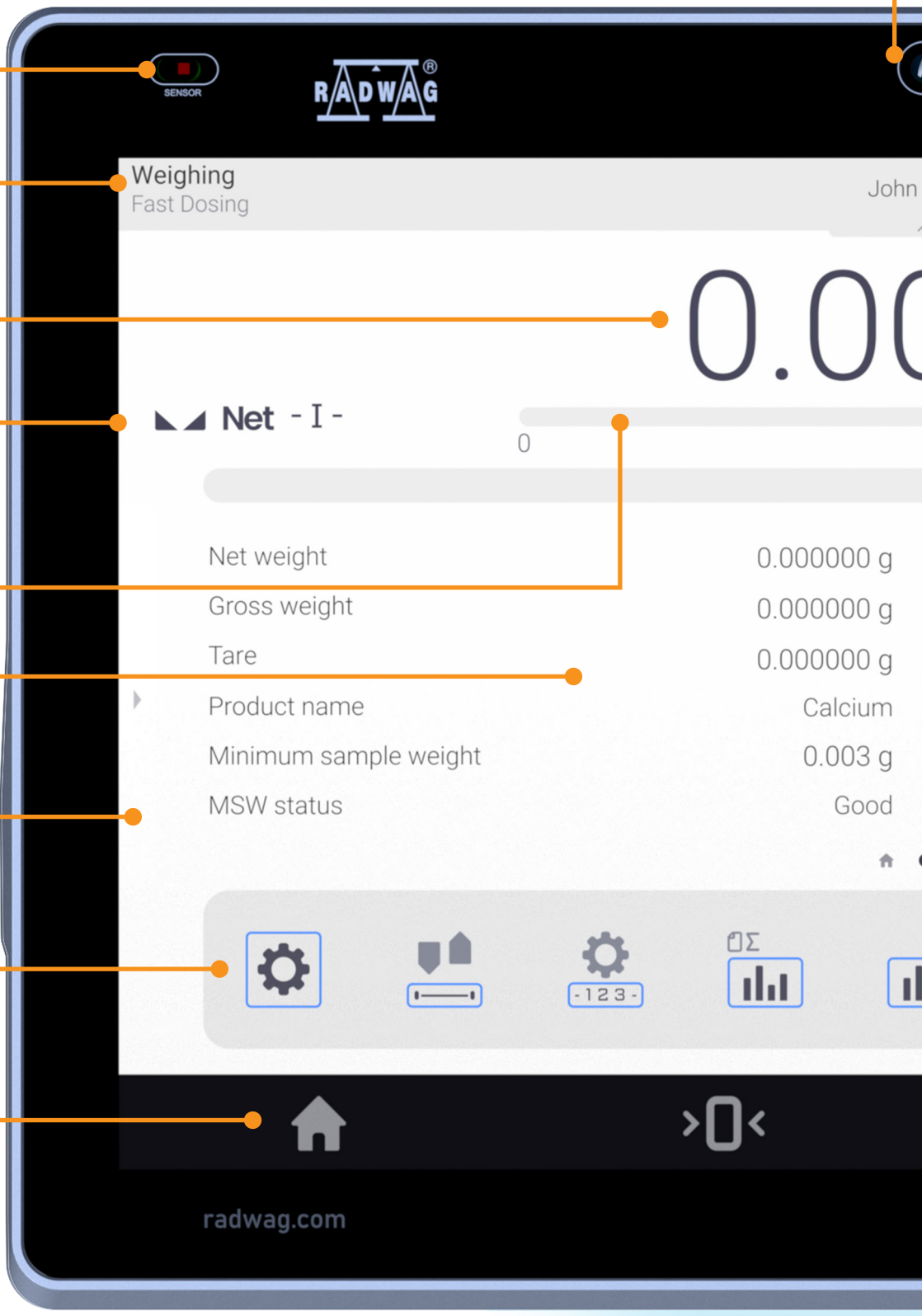
Always visible necessary statuses

Customized data

Slide-out quick access panel

Quick access to commands

Home



# of ELLIPSIS

Dark mode



User data

Slide-down quick access panel

Touch-free operation (IR sensor)

Date and time

Smart levelling control

BWP digital balance auditor

Widgets

Slide-out measurement history

Home screen

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



Media Box

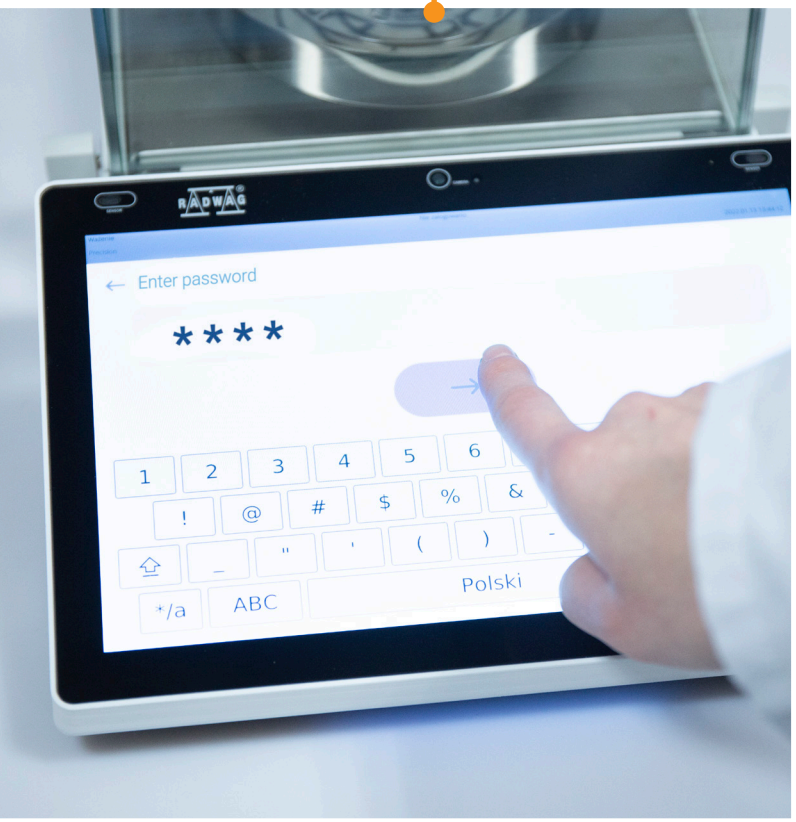
HDMI
(any large screen)

Ethernet
(printer, computer)

USB-C (Free Link)
(spreadsheet)

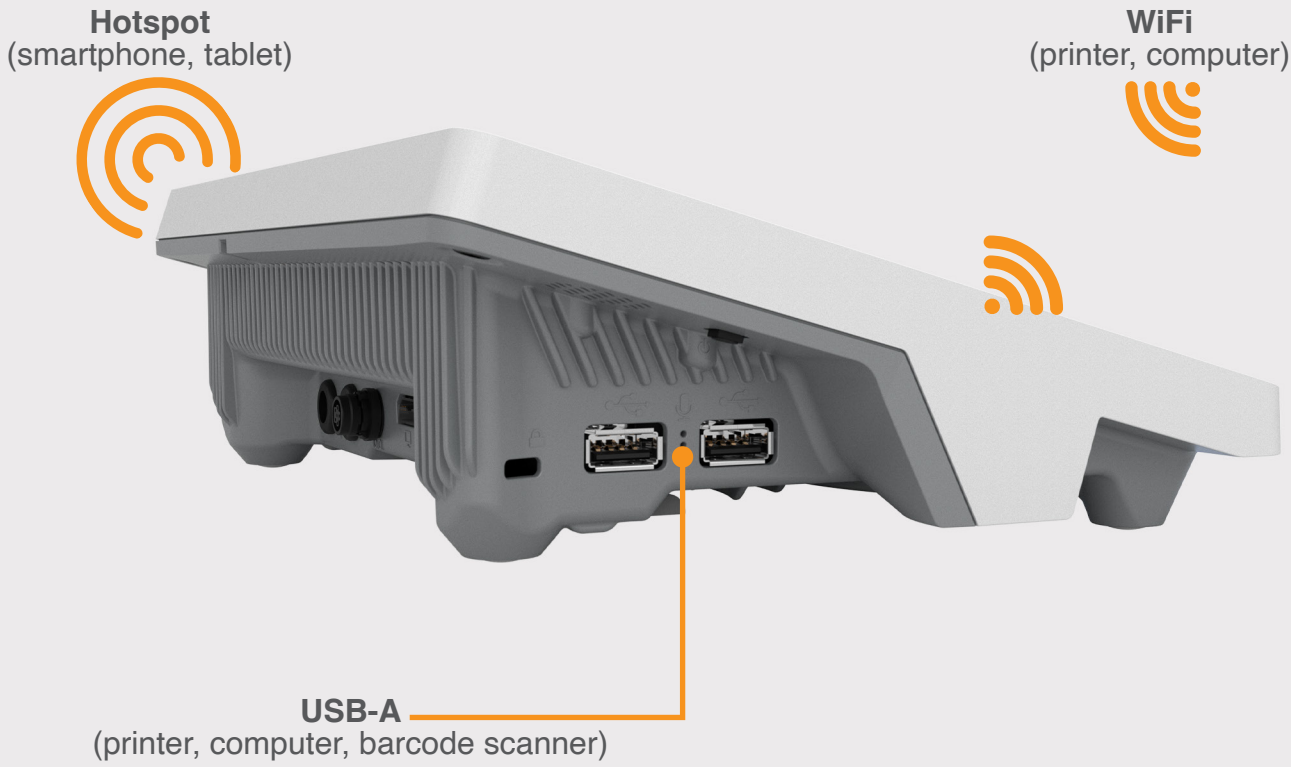
Safety First

Audited login methods





Quick logout



Compliance confirmation

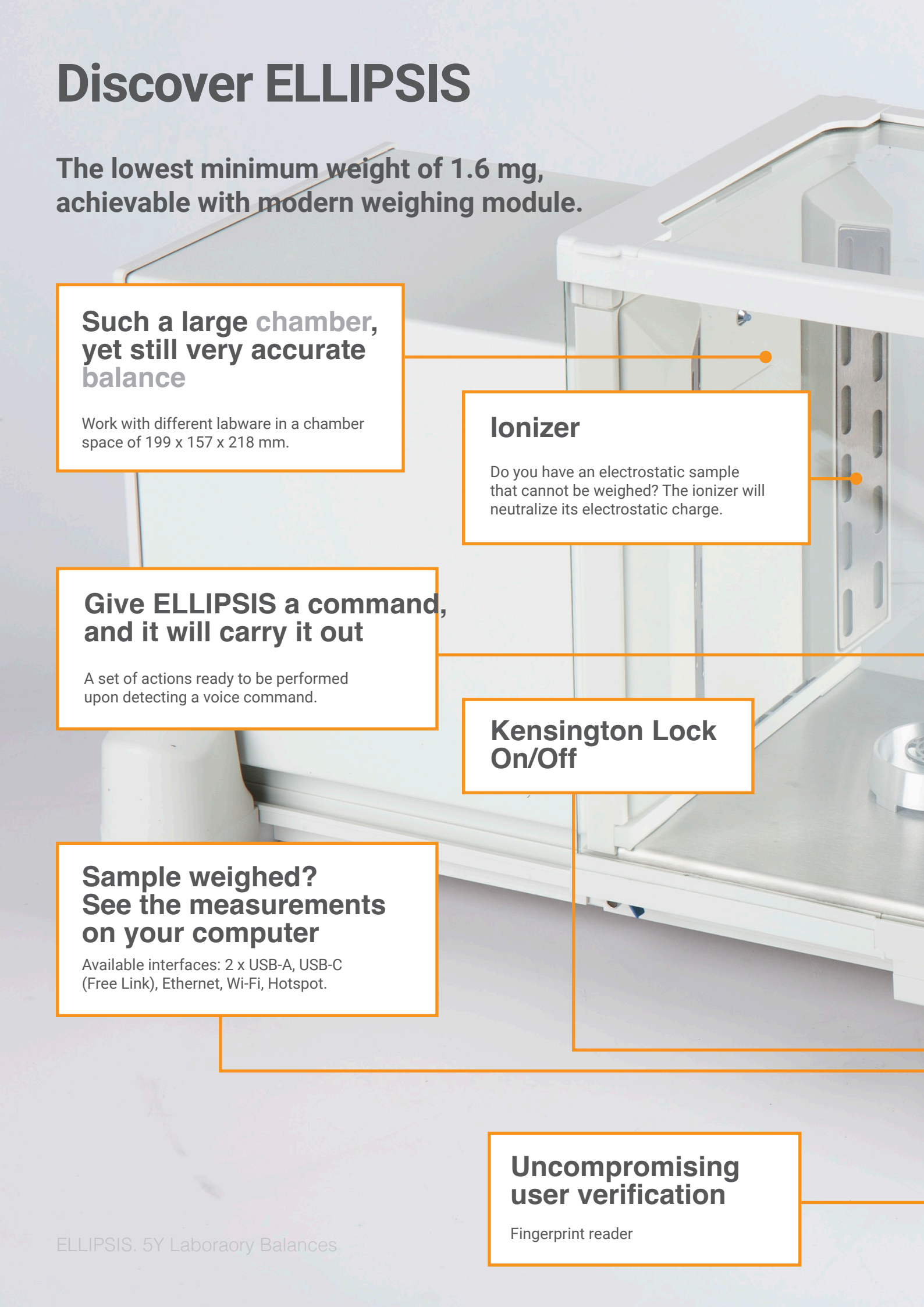
- 21 CFR part 11
- BWP
- GMP
- Qualifications
- Validations
- Quality system
- and more





Discover ELLIPSIS

The lowest minimum weight of 1.6 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 x 218 mm.

Ionizer

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.

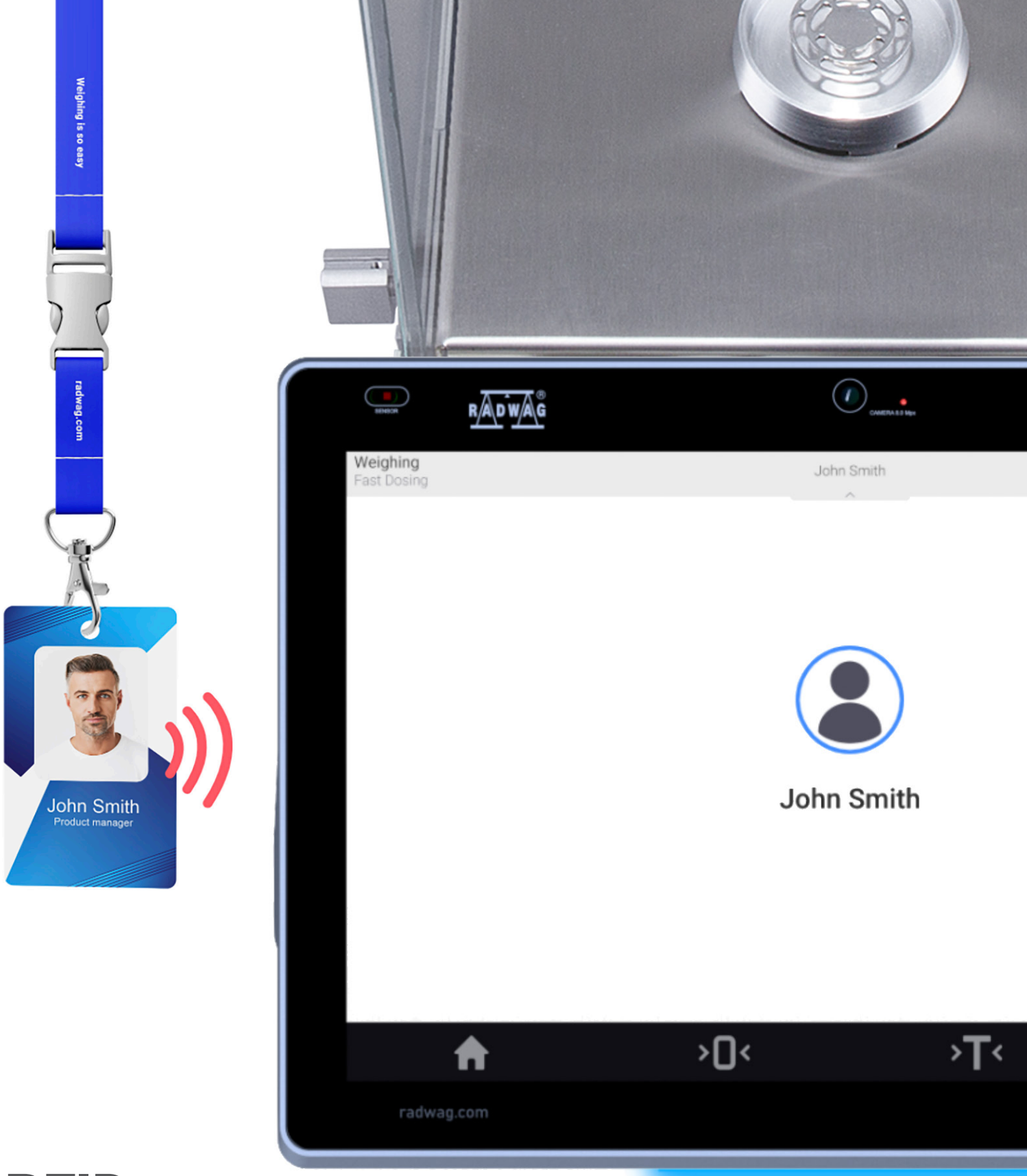


Terminal tilt adjustment



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.

Hotspot

No space in your fume cupboard or access to the weighing terminal (glovebox)? Or maybe you want to operate the balance remotely?



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

Widgets

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



Up-to-date information on ambient conditions



Real-time statistics from a series of measurements



Looking for more than just weighing?



Working modes

Weighing
Basic working mode that displays the mass of a sample

Parts counting
Quick counting of samples of similar mass

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

Dosing
Weighing to a target value.

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.

Statistics
Real-time statistics determined from carried out weighings.

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

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.

Comparator
Control of mass standards.

Mass control
Statistical control of samples of similar mass.

Fraction
Statistical control of mass according to fractions.

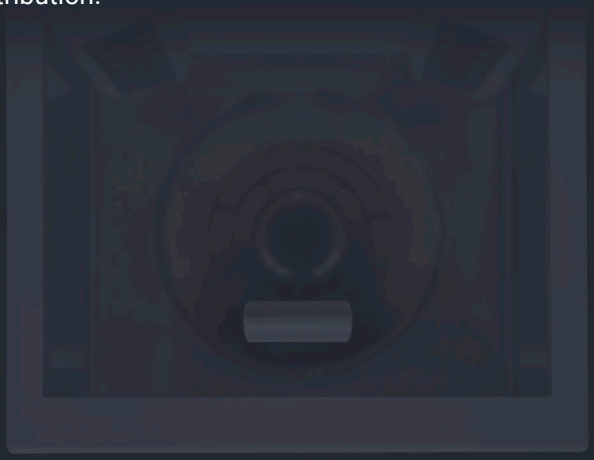
Note down your conclusions

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



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



Ambient conditions graph



Vibration graph



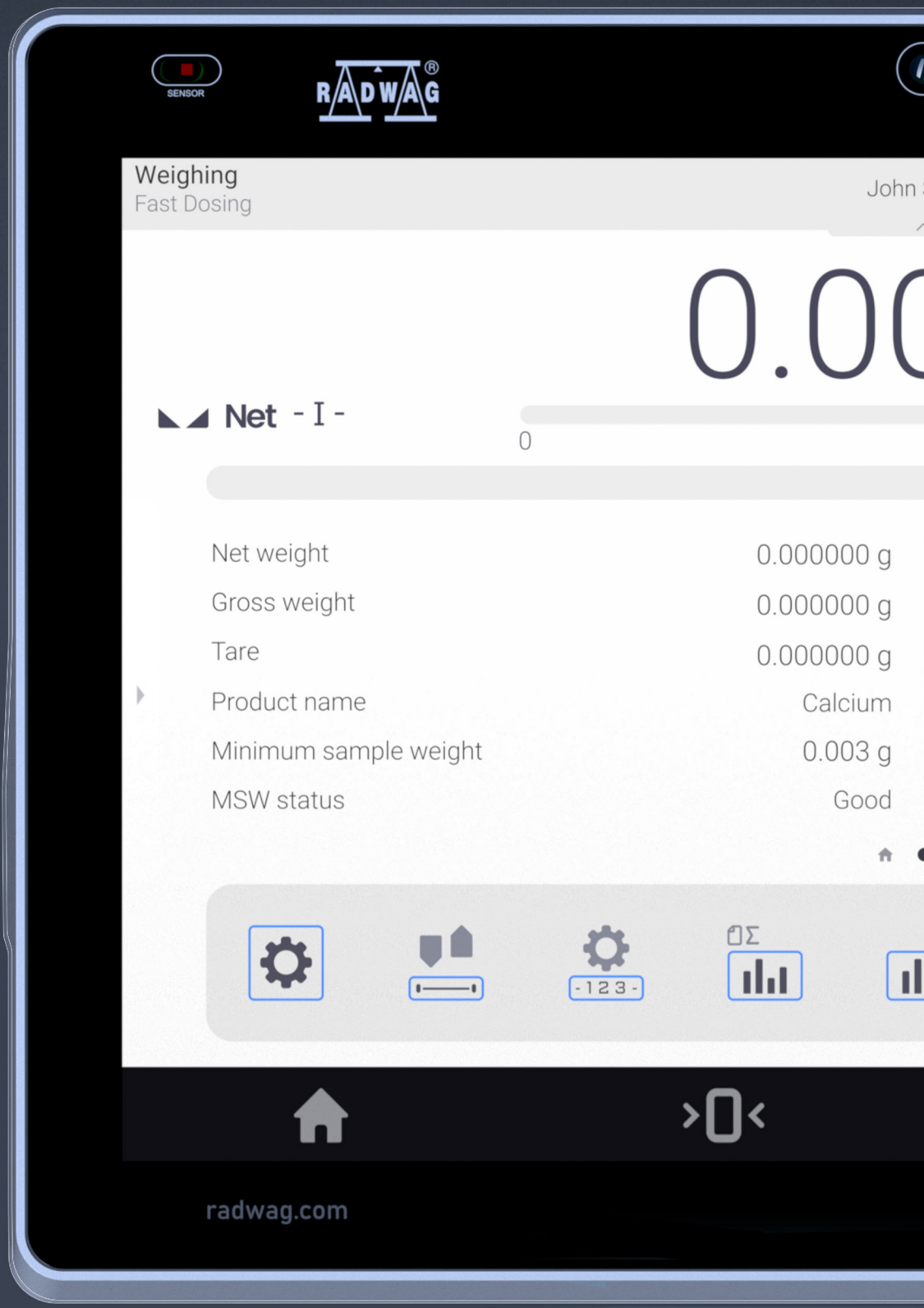
SQC graph



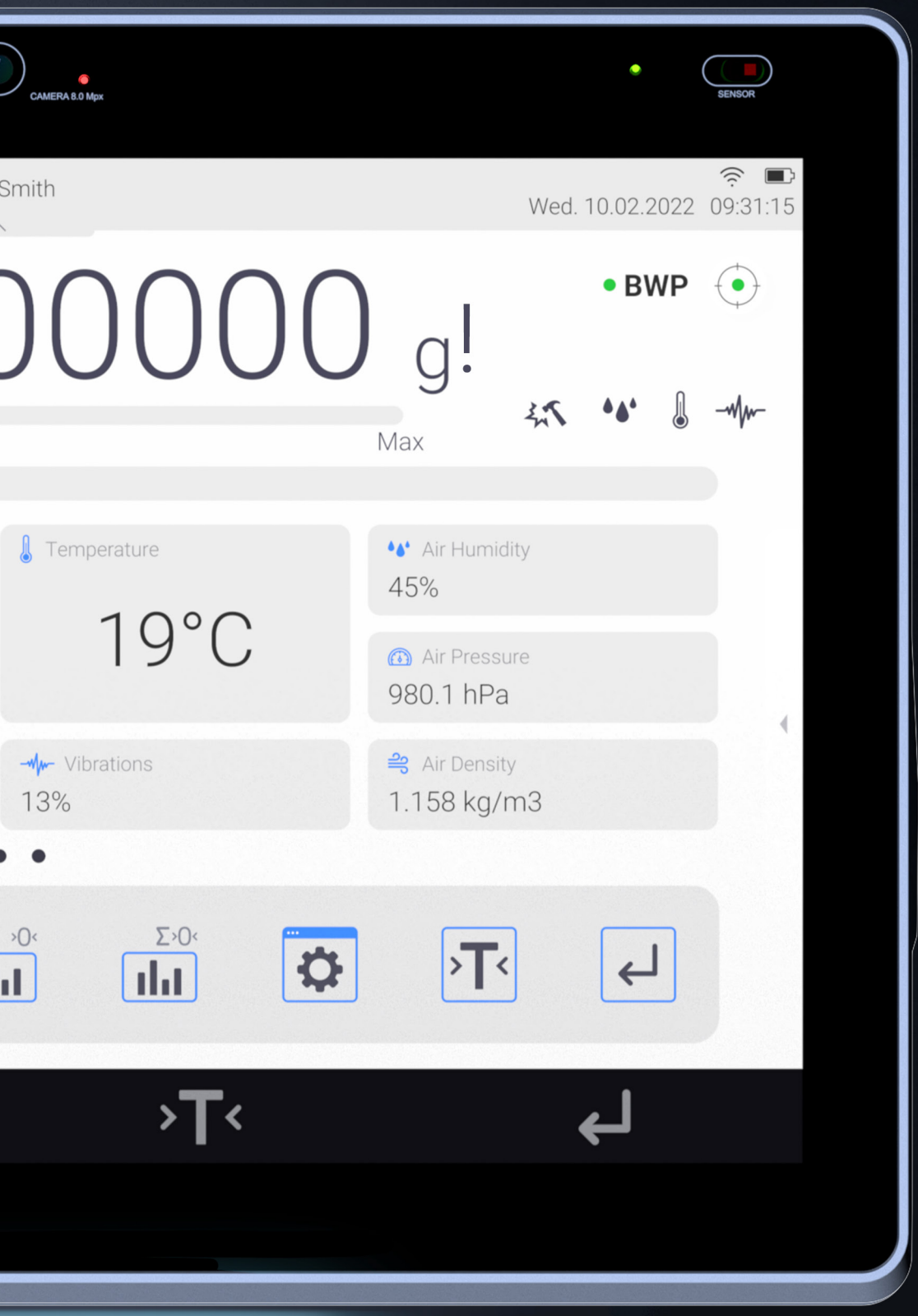
Gaussian distribution graph

BWP - Better Weighing Practice

Have you ever wondered if your balance is ready for work?
The digital auditor makes sure it is.



BWP 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.



● BWP

● BWP

● BWP

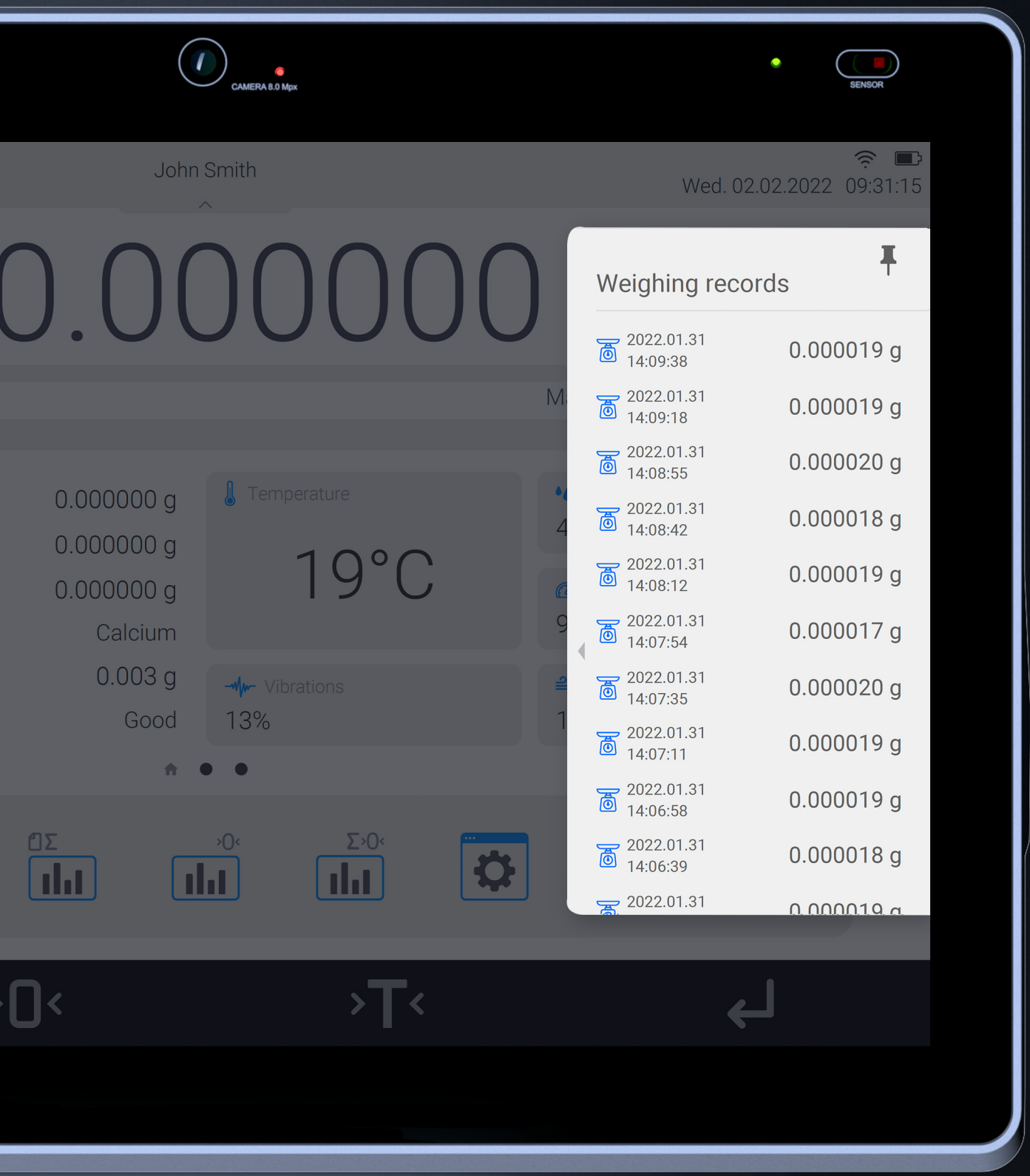
Are the conditions in your laboratory the best for the balance you have?

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 BWP. 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.



Have you ever failed to record the weighing result?




lations
orts
E-signed documents (21 CFR)
Pipettes
Weight adjustment reports
Ambient conditions
Series
Mass controls
Minimum weight
Average tares
Comparison reports
Pipette calibration reports
Universal variables
Printouts

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





21 CFR Part 11

EU GMP Annex 11

Full Data Security

Electronic Records



Electronic Signatures

Audit Trails

Validations

- 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 the only company to meet 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



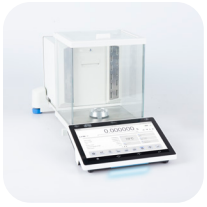




Technical Specification	UYA 5Y	UYA 5Y.F	UYA 5Y.S	MYA 5Y	MYA 5Y.F
Maximum capacity [Max]	2.1-6.1 g	2.1 g	2.1 g	0.8-52 g	5.1 g
Readability [d]	0.1 µg	0.1 µg	0.1 µg	1-10 µg	1 µg
Repeatability (5% Max)*	0.15-0.2 µg	0.2-0.25 µg	0.15 µg	0.6-1.5 µg	0.6 µg
Minimum weight (USP)	0.3-0.4 mg	0.4-0.5 mg	0.3 mg	0.82-3 mg	1.2 mg
Linearity	±1.5 µg	±1.5 µg	±1.5 µg	±1.5 µg	±5 µg
Stabilization time	10-20 s	10-20 s	10-20 s	10-20 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	Intended for stents	ø 16 mm ø 26 mm ø 40 mm	ø 16 mm ø 16 mm ø 70 mm for filters ø 160 mm for filters
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





MYA 5Y.P	XA 5Y.M	XA 5Y.M.P	XA 5Y.S	XA 5Y	PM 5Y
5.1 g	6.1 - 53 g	6 - 53 g	6 g	52-520 g	10-50 kg
1 µg	1 µg	1 µg	1 µg	0.001-0.1 mg	0.01-0.1 g
0.6 µg	1.2 µg	0.8 µg	1.3 µg	0.005-0.07 mg	0.004-0.04 g
1.2 mg	2.4 mg	2 mg	2.6 mg	10-140 mg	0.82-8.2 g
±5 µg	±7 µg	±5 µg	±9 µg	±0.06-0.1 mg	±0.03-0.3 mg
max 8 s	max 10 s	max 10 s	max 10 s	1.3-4 s	3 s
2-point internal	2-point internal	2-point internal	2-point internal	2-point internal	Internal
or ø 26 mm	ø 30 mm	Intended for stents	ø 100 mm or ø 160 mm	ø 100 mm ø 160 mm	200 × 185 mm 350 × 260 mm
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	USB-A × 2 USB-C HDMI Ethernet Wi-Fi® Hotspot

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

Wi-Fi® is a registered trademark of Wi-Fi® Alliance.

coming soon

AP-12 5Y

Multichannel pipette calibration

- Robot for multichannel pipette calibration according to ISO 8655
- Evaporation ring
- Two cases
- Up to 12 channels



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