

Comprehensive Security

Has no Alternative



We Understand Your Safety Concerns And We Have the Solution

Three innovations provide comprehensive weighing security

- SmartSens
- SmartGrid
- SmartScreen

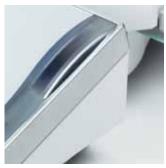
METTLER TOLEDO is changing the world of analytical balances. SmartSens, SmartGrid and SmartScreen – three innovations combined in a single balance – provide comprehensive weighing security. They provide maximum user protection, unparalleled measurement performance, full data security and seamless traceability.

The result is secure processes, higher speed and lower costs.

Excellence Plus XP: Improved performance with more security.







SmartSens



SmartGrid



SmartScreen

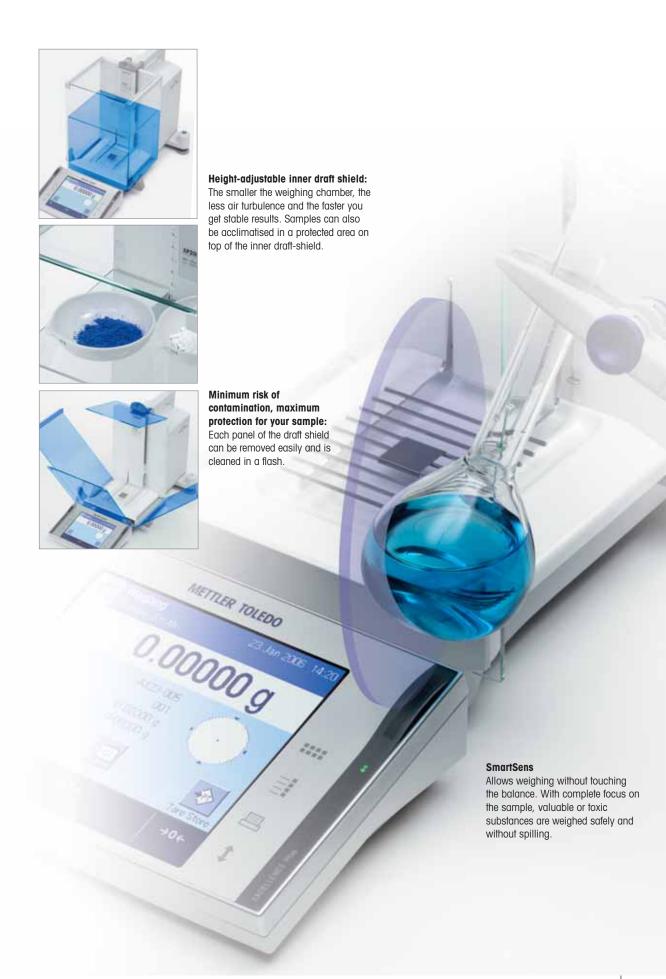
Hazardous Material, Valuable Substances? Weigh Them Safely with no Loss.

SmartSens for hands-free draft shield operation

Open sesame! Thanks to the SmartSens infrared sensors, you can weigh without touching the balance. Tare, open the door, close the door, weigh, print: Everything is done automatically with a wave of your hand. You can focus completely on the sample, and weigh valuable or toxic substances safely and without spilling.

Excellence Plus XP with SmartSens: Keeping you as safe as your samples.



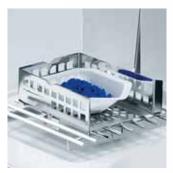


Assorted Tare Containers? Weigh Directly and Fast.

SmartGrid is the key to high speed and secure sample handling

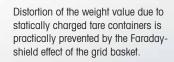
SmartGrid, the unique grid weighing pan, successfully minimizes the effects of air turbulence in the weighing chamber. Stabilization times are dramatically shorter so you receive measuring results faster. Overfilling is easily avoidable and minimum weights are even smaller, which pays off when it comes to valuable substances. The ErgoClips allow you to securely fasten any type of tare container so that none of your sample is wasted.

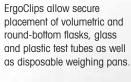


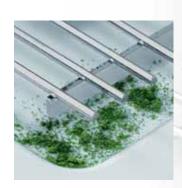












But if anything ever does go wrong, SmartGrid ensures that spilled substances simply fall into the tray underneath. Spills will not falsify your weighing result and can simply be thrown away.

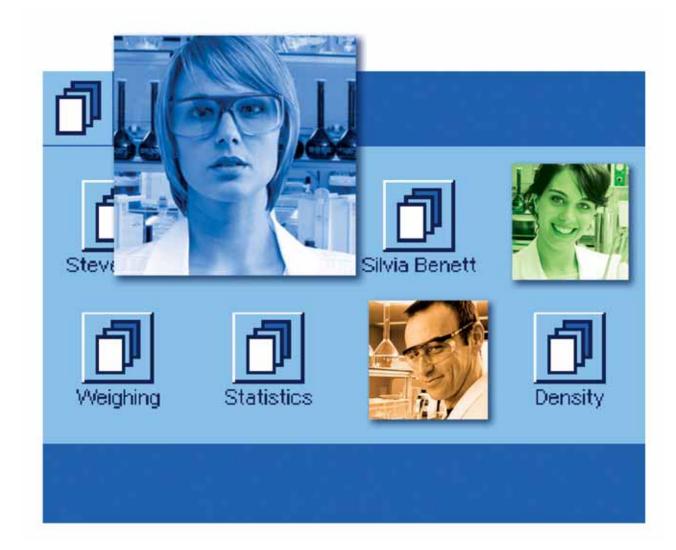


Secure Operation Guaranteed – for Smooth Processes and Flawless Data

SmartScreen guarantees complete control

SmartScreen is the brain behind the Excellence Plus XP. Multilingual and color-coded. Easy-to-use and self-explanatory. With touchscreen and profiles configured individually for up to eight users or jobs, SmartScreen saves time and helps prevent mistakes.

Excellence Plus XP with SmartScreen: Extremely easy to operate. For the highest data security and full regulatory compliance.





More personalized in every way.

Up to eight users can save their individual settings in their own languages, including color profile, and protect them against unauthorized access.



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Formulation Silvia Benett

Preconfigure up to eight jobs.

With defined fault tolerances for each job and password protection. We have eliminated the danger of unwanted modifications. You can also change quickly from job to job, to avoid unproductive time.

Clear documentation for perfect traceability. What is weighed, when, how and by who can be completely configured and documented, protecting users, data and processes.







XP Micro Balance — for the Smallest Sample Quantities

- World-leading measurement performance: 52 g x 1 µg
- Minimum sample weight according to USP as low as 2.1 mg
- Direct-dosing of small samples into large tare containers
- No sample transfer means no loss of valuable substances

When it comes to weighing small samples, we leave nothing to chance. Our XP56 micro balance, offering a world-leading capacity of 52 g with 1 μ g readability, allows minimum sample weights according to USP as low as 2.1 mg – for maximum yield of your substances and substantial cost savings.

Moreover, XP Microbalances enable you to dose your samples directly into the tare container which helps avoid sample transfer errors. The result: maximum measurement certainty and reduced contamination risk.



Easy cleaning

The inner draft shield is quick and easy to dismantle.

www.mt.com/micro





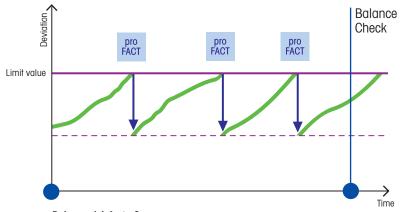
Regulatory ComplianceThrough Built-in Warning Functions

- Eliminate risk factors with Balance Check
- User Management
- proFACT automatic internal adjustment
- MinWeigh
- LevelControl

Precise weighing is the backbone of many laboratory processes. Non-compliance with defined maximum limits can have disastrous consequences in regulated areas. Measurement series must be repeated, and valuable substances are wasted. Inaccurate values can even cause production to stop. Unnecessary costs are incurred.

Thanks to the built-in warning functions MinWeigh and LevelControl, the User Management function and proFACT automatic internal adjustment, risk factors are eliminated, keeping you within regulatory limits.

Excellence Plus XP: Ensuring your security.



Balance risk factor?

BalanceCheck and proFACT automatic adjustment.

Receive automatic prompts to validate the measuring accuracy with an external weight – whenever the SOP calls for it. Between test intervals, proFACT automatic adjustment ensures that you never exceed your maximum limits. It also stores the last 50 adjustments in the History File.



OIML weights

For the systematic control of inspection, measuring, and test equipment we offer a comprehensive assortment of METTLER TOLEDO OIML weights. (ASTM weights available in the USA.)

www.mt.com/weights



User Steve Miller

Human risk factor?

MinWeigh warning function. Does your weighing result fall below the defined fault tolerance? MinWeigh uses the unmistakable red-colored display to warn you that the result is invalid.

User Management

Individual access rights can be provided for each application and up to eight users. Applications and users that are not being used can be disabled. Faulty operation is ruled out.

proFACT

Freely configurable time and/or temperature-controlled internal adjustment and linearisation with two built-in weights.

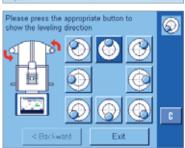
SOP device balances

Test, Maintain, Monito

- A. At least 60 min. before calibration Switch on balance
- B. Clean weighing platform. Observe acclimatisation time
- C. Allow certified control masses to acclimatise
- D. Check and if necessary correct levelling
- E. Close draft shield
- F. Set display to "Zero"
- G. Certified control mass







Environment as a risk factor? LevelControl warning function. Was the balance jarred when it was cleaned? Is it inaccurate because it's no longer level?

was cleaned? Is it inaccurate because it's no longer level? LevelControl gives off an acoustic warning signal and shows you, in the display, exactly what you need to do to level the balance.





LabX pro supports 21 CFR Part 11 and network integration

LabX pro balance is a powerful, PC-based solution for managing and controlling balances. The software allows all balances to be fully networked and enables seamless integration into laboratory information systems (LIMS). LabX pro collects all relevant data and allows access to the settings and status of all balances from any PC in the network. Thanks to rapid access, users can login to the system directly from the balance and carry out weighing jobs without touching a PC. Of course LabX also fully supports compliance with 21 CFR part 11.

LabX light – Weighing data management made easy

■ 三田 D M . 11 21 (K 00 11 A

LabX light balance is a user-friendly solution for connecting a single balance to a PC. In addition to the many data collection options, LabX light balance also offers convenient functions to set and control balance settings. If the collected data needs to be processed further in another application such as Excel, of course LabX offers the appropriate interfaces.

G P205 DVLab Date / Time Final weighing 6.14.05 3:01:43 PM 86 3:02:28 PM 6.14.05 6.14.05 3:03:15 PM 87 6.14.05 3:04:10 PM 81 6.14.05 3:05:09 PM 86 6.14.05 3:06:06 PM 3:07:02 PM 6,14.05





Eliminates electrostatic charges

Integrable anti-static kit

Integrable anti-static kit

The same weighing sample but different weight values in the display? The phenomenon is well-known and the explanation is usually a simple one: electrostatically-charged samples lead to inaccurate results. The integrable ioniser immediately neutralises the electrostatically-charged object. The forces that give false weighing results are eliminated.

Fully integrable, no swirling, extremely fast

The fully integrable ioniser generates positively and negatively-charged ions. These immediately eliminate the electrostatic charge that causes the interference. The system does not swirl any of the weighing material as may be the case with other products available in the market. Toxic substances no longer pose a threat to the user. Crosscontamination of samples is prevented. The antistatic kit guarantees precise weighing under the most severe conditions.





www.mt.com/labx

Standard equipment

- SmartSens, Sensor for hands free operation
- SmartGrid, grid weighing pan for fast and stable results
- SmartScreen, color display for safe and user-friendly operation
- ErgoClip Basket small, or ErgoClip Basket micro (with models XP56/XP26). Holder for tare containers for ergonomic weighing
- MinWeigh warns if the minimum weight is not reached (Minimum weight determined on site by service technician)
- User Management for granting access rights
- LevelControl warns when the balance is not levelled
- BalanceCheck, prompts automatically for validation with external weights
- ProFACT, fully-automatic temperature and/or time-controlled internal adjustment and linearisation
- Seven different applications with user guidance (incl. density determination, statistical analysis, formulation and differential weighing)
- Individual reports can be defined with up to 4 IDs
- Built-in RS232 interface and two auxiliary outlets
- Slot for second interface (7 options)
- Height-adjustable inner draft shield
- · Motor-driven draft shield doors
- Completely dismountable draft shield for easy cleaning
- Terminal can be positioned separately from the balance
- Protective cover for the terminal
- Production certificate

ErgoClips for XP Analytical balances







ErgoClip Basket Small



ErgoClip Weighing Boat



ErgoClip Flask



ErgoClip Tube



ErgoClip Titration Basket 11106883

XP Analytical balances

Technical data (Limit Values)	XP105DR	XP205	XP205DR	XP204	XP504	
Maximum capacity	120 g	220 g	220 g	220 g	520 g	
Maximum capacity, fine range	31 g	_	81 g	_	_	
Readability	0.1 mg	0.01 mg	0.1 mg	0.1 mg	0.1 mg	
Readability, fine range	0.01 mg	_	0.01 mg	_	_	
Repeatability – (at nominal load)	0.06 mg (100 g)	0.03 mg (200 g)	0.06 mg (200 g)	0.07 mg (200 g)	0.12 mg (500 g)	
- (at low load)	0.05 mg (10 g)	0.015 mg (10 g)	0.05 mg (10 g)	0.05 mg (10 g)	0.1 mg (10 g)	
- (at low load), fine range	0.015 mg (10 g)	_	0.015 mg (10 g)	_	_	
Linearity	0.15 mg	0.1 mg	0.15 mg	0.2 mg	0.4 mg	
Excentric load deviation (test load) 1)	0.2 mg (50 g)	0.2 mg (100 g)	0.25 mg (100 g)	0.25 mg (100 g)	0.4 mg (200 g)	
Sensitivity offset	4x10 ^{−6} ·Rnt	2x10 ⁻⁶ ·Rnt	2.5x10 ⁻⁶ ·Rnt	3x10 ⁻⁶ -Rnt	3x10 ⁻⁶ ⋅Rnt	
Sensitivity temperature drift ²⁾	1x10 ⁻⁶ /°C⋅Rnt	1x10 ⁶ /°C⋅Rnt	1x10 ⁻⁶ /°C·Rnt	1x10 ⁻⁶ /°C·Rnt	1x10 ⁻⁶ /°C⋅Rnt	
Sensitivity stability 3)	1x10-6/a∙Rnt	1x10−6/a·Rnt	1x10-6/a∙Rnt	1x10-6/a∙Rnt	1x10−6/a·Rnt	
Interface update rate	23/s	23/s	23/s	23/s	23/s	

Typical values for calculating the measurement uncertainty

Repeatability* (sd)	0.04 mg+1x10 ⁻⁷ -Rgr	0.008 mg+6x10 ⁻⁸ -Rgr	0.04 mg+5x10 ⁻⁸ ·Rgr	0.04 mg+5x10 ⁻⁸ ·Rgr	0.04 mg+6x10 ⁻⁸ ·Rgr
Repeatability*, fine range (sd)	0.008 mg+1.5x10 ⁻⁷ ·Rgr	-	0.008 mg+1.2x10 ⁻⁷ ·Rgr	-	-
Differential linearity deviation (sd)	$\sqrt{2.5x10^{-11}g \cdot Rnt}$	$\sqrt{5x10^{-12}g \cdot Rnt}$	$\sqrt{1.2x10^{-11}g \cdot Rnt}$	$\sqrt{2x10^{-11}g \cdot Rnt}$	$\sqrt{5x10^{-11}g \cdot Rnt}$
Differential eccentric load deviation (sd)	1x10 ⁻⁶ ⋅Rnt	5x10 ⁻⁷ ⋅Rnt	5x10 ⁻⁷ ·Rnt	6x10 ⁻⁷ ⋅Rnt	5x10 ⁻⁷ ⋅Rnt
Sensitivity offset (sd) ²⁾	1x10-6.Rnt	5x10 ⁻⁷ ⋅Rnt	8x10-7-Rnt	1x10-6-Rnt	6x10 ⁻⁷ ⋅Rnt
Minimum weight (according to USP)	24 mg+4.5x10 ⁻⁴ ·Rgr	24 mg+1.8x10 ⁻⁴ -Rgr	24 mg+3.6x10 ⁻⁴ ·Rgr	120 mg+1.5x10 ⁻⁴ -Rgr	120 mg+1.8x10 ⁻⁴ -Rgr
Minimum weight * (U=1%, 2 sd)	1.6 mg+3.0x10 ⁻⁵ ·Rgr	1.6 mg+1.2x10 ⁻⁵ ⋅Rgr	1.6 mg+2.4x10 ⁻⁵ ⋅Rgr	8 mg+1x10 ⁻⁵ -Rgr	8 mg+1.2x10 ⁻⁵ ⋅Rgr
Settling time	1.5s	2.5s	1.5s	1.5s	1.5s
Settling time, fine range	4s	6s	4s	4s	4s

 $^{^{1)}\ \}mbox{According to OIML R76}$

sd: Standard deviation Rgr: Gross weight Rnt: Net weight (of sample) a: Year (annum)

For more information visit

www.mt.com/XP-analytical

www.mt.com/micro



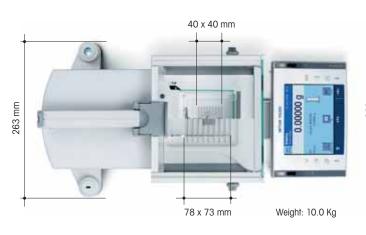
Connection guaranteedWhether Bluetooth, Ethernet or simply RS232: The XP guarantees connectivity.

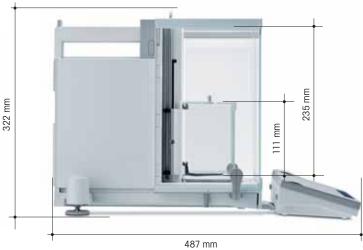


Wireless connection to balance with the Bluetooth Printer BT-P42.

²⁾ In temperature range 10 – 30 °C

³⁾ Stability of sensitivity as from first installation with proFACT







MinWeigh Door for exterior draft shield 11106749

ErgoClips for XP Micro balances



ErgoClip Basket micro 11107889



ErgoClip Flask micro, including extension 11107879



MinWeigh Door micro for inner draft shield 11107869

XP Micro balances

XP504DR
520 g
101 g
1 mg
0.1 mg
0.6 mg (500 g)
0.5 mg (10 g)
0.1 mg (10 g)
0.5 mg
0.5 mg (200 g)
4x10 ⁻⁶ ·Rnt
1x10=6/°C-Rnt
1x10-6/a-Rnt
23/s

0.4 mg+2x10 ⁻⁷ ·Rgr
0.04 mg+2.0x10 ⁻⁷ ·Rgr
$\sqrt{8x10^{-11}g \cdot Rnt}$
5x10 ⁻⁷ ⋅Rnt
8x10-7⋅Rnt
120 mg+6x10 ⁻⁴ ·Rgr
8 mg+4x10 ⁻⁵ -Rgr
1.5s
3.5s

Accessories:

Technical data (Limit Values)	XP26	XP26DR	XP56	XP56DR
Maximum capacity	22 g	22 g	52 g	52 g
Maximum capacity, fine range	-	5.1 g	-	11 g
Readability	0.001 mg	0.01 mg	0.001 mg	0.01 mg
Readability, fine range	-	0.002 mg	-	0.002 mg
Repeatability - (at nominal load)	0.0025 mg (20 g)	0.008 mg (20 g)	0.006 mg (50 g)	0.014 mg (50 g)
- (at low load)	0.0015 mg (1 g)	0.005 mg (1 g)	0.0015 mg (1 g)	0.006 mg (1 g)
- (at low load), fine range	_	0.002 mg (1 g)	-	0.002 mg (1 g)
Linearity	0.006 mg	0.01 mg	0.02 mg	0.03 mg
Excentric load deviation (test load) 1)	0.02 mg (10 g)	0.025 mg (10 g)	0.03 mg (20 g)	0.035 mg (20 g)
Sensitivity offset	4x10 ⁻⁶ -Rnt	5x10 ⁻⁶ -Rnt	2.5x10 ⁻⁶ -Rnt	3x10 ⁻⁶ -Rnt
Sensitivity temperature drift ²⁾	1x10 ⁻⁶ /°C·Rnt	1x10-6/°C-Rnt	1x10 ⁻⁶ /°C-Rnt	1x10 ⁻⁶ /°C·Rnt
Sensitivity stability 3)	1x10-6/a∙Rnt	1x10-6/a-Rnt	1x10-6/a-Rnt	1x10-6/a-Rnt
Interface update rate	23/s	23/s	23/s	23/s

Typical values for calculating the measurement uncertainty

Repeatability* (sd)	0.0007 mg+4x10 ⁻⁸ -Rgr	0.004 mg+5x10 ⁻⁸ ·Rgr	0.0007 mg+6x10 ⁻⁸ ·Rgr	0.004 mg+6x10 ⁻⁸ ·Rgr
Repeatability*, fine range (sd)	-	0.0012 mg+1x10 ⁻⁷ -Rgr	-	0.0012 mg+1x10 ⁻⁷ -Rgr
Differential linearity deviation (sd)	$\sqrt{1.2x10^{-13}g\cdot Rnt}$	$\sqrt{3x10^{-13}g \cdot Rnt}$	$\sqrt{5x10^{-13}g \cdot Rnt}$	$\sqrt{1.2x10^{-12}g \cdot Rnt}$
Differential eccentric load deviation (sd)	3x10 ⁻⁷ ⋅Rnt	4x10 ⁻⁷ ⋅Rnt	3x10 ⁻⁷ ⋅Rnt	4x10 ⁻⁷ -Rnt
Sensitivity offset (sd) ²⁾	1x10–6⋅Rnt	1.2x10-6-Rnt	6x10-7-Rnt	8x10 ⁻⁷ -Rnt
Minimum weight (according to USP)	2.1 mg+1.2x10 ⁻⁴ -Rgr	3.6 mg+3x10 ⁻⁴ ·Rgr	2.1 mg+1.8x10 ⁻⁴ -Rgr	3.6 mg+3x10 ⁻⁴ -Rgr
Minimum weight * (U=1%, 2 sd)	0.14 mg+8x10 ⁻⁶ -Rgr	0.24 mg+2x10 ⁻⁵ ·Rgr	0.14 mg+1.2x10 ⁻⁵ -Rgr	0.24 mg+2x10 ⁻⁵ ·Rgr
Settling time	3.5s	2.5s	3.5s	2.5s
Settling time, fine range	_	3.5s	-	3.5s

Printer RS-P42 with RS232 connection	229265
Printer BT-P42 with wireless Bluetooth connection	11132540
Footswitch: switch for balance functions	11106741
ErgoSens: hands free sensor for balance functions	11132601
Terminal extension cable 4.5 m	11600517
Density determination add-on	11106706
Integrable anti-static kit, complete	11107761
RS232-C (interface)	11132500
Bluetooth BTS Single point (interface)	11132535
Bluetooth BT Multi point (interface)	11132530
Ethernet (interface)	11132515

PS/2 keyboard connection (interface)	11132520
LocalCAN (interface)	11132505
Cable RS9-RS9 (m/f), 1m	11101051
Cable LC-RS9 for LocalCAN	229065
Weighing Kit – ErgoClip Set	11106707
PC-Volume Option 1	21900791
Evaporation trap, PC-Volume Option 2 XS/XP	21901263
PC-Volume Option 3 XS/XP	21901264
Printer stand	11106730
SE-Kit XP-A separate electronics	11106743
USB Convertor cable	11600610

^{*} Repeatability and minimum weight capacity can be improved by the following measures:
Select suitable weighing parameters, choose a better location, use smaller weighing containers

1) According to OIML R76 2) In temperature range 10 – 30 °C 3) Stability of sensitivity as from first installation with proFACT sd: Standard deviation Rgr: Gross weight Rnt: Net weight (of sample) a: Year (annum)

Conformity and Operational ReliabilityWith Service XXL

Qualify your balances and work efficiently and safely from day one. METTLER TOLEDO offers customized solutions for working in a regulated environment.







EQ-Pac - Conformity and efficiency all inclusive

The complete Equipment Qualification solution. All relevant IQ/OQ/PQ/MQ processes, the associated services and the necessary documentation are combined in a complete package. In order to perform the preliminary Design Qualification (DQ) competently and quickly, we recommend the use of the METTLER TOLEDO DQ protocol in addition to the EQ Pac.

IPac – to ensure qualified installation

Ready for use straight away. With IPac, you ensure a professional installation and initial qualification. IPacs are ideal for integrating the weighing unit into an existing quality management system.

XXL Service – more than just service

METTLER TOLEDO offers custom services for day-to-day operational reliability, to maintain the value and ensure fault-free operation of your weighing unit. Our global service network comprises over 1200 highly-trained and local engineers offering cost-effective service solutions. Contact your local METTLER TOLEDO partner.

www.mt.com/micro www.mt.com/XP-Analytical

For more information

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Quality certificate

development, production and testing under ISO 9001



Environmental management system under ISO 14001



"Communauté Européenne"

This mark guarantees that our products comply with the latest directives.





A question of adjustment.

Configure your own specific methods.

□ Eight mutually independent user settings can be configured at will
□ Easy operation with TouchScreen
□ Alphanumeric keypad for clear identification of samples
□ Information window gives clear overview of application progress



"Now I can configure the balance individually. Just the way I like it. I save the selected settings and activate them under my name. So I always work with a completely personalized balance."

Gisela Bender, lab technician

Direct access.

Individuality at the workplace is motivating. And results in fast and reliable work. Which is why the balance can be configured according to the task. Up to eight password-protected methods or user settings can be defined. The desired settings can be called up at a keystroke.

Easy operation.

Thanks to touchscreen technology configuring the balance is especially easy. The screen guides you. You select and confirm with the touch of a fingertip. The selected settings are then saved automatically.

Everything visible.

A glance at the large, clear screen tells you not only the weight value but also information about your application. The information to be displayed about the application and functions can be individually defined by each user.

Multilingual dialogue.

The operator dialogue is in the language of your choice: English, German, French, Spanish, Italian, Japanese or Russian.



Practical.

The alphanumeric keypad can be called up for easy input of user, application, and sample information.



Door opener.

SmartSens automatically opens the weighing chamber for you.

- □ SmartSens for hands-free operation
- □ Operator terminal can be positioned as convenient
- □ Display unit can be set at the best angle for good visibility

Automatic and smart.

SmartSens comprises two sensors, one at each side of the weighing chamber. If a hand approaches, the chamber automatically opens at the left, at the right, or completely. When the hand is removed, the glass weighing chamber doors slide shut and the weighing process starts.

Safe weighing results.

Hands-free weighing with Smart-Sens lets you focus entirely on handling the sample. So you can avoid unnecessary waste of sample material.

Personal adjustment.

The way SmartSens functions can be configured differently to suit personal work styles. Each configuration is then saved together with other settings for up to eight different balance operators.

No messing.

SmartSens makes new ways of operating the balance possible. The automatic system functions flawlessly, even under difficult or contaminated conditions, and is always dependable. No maintenance work or adjustments are necessary.

A new slant.

You can adjust the inclination of the operator terminal to make it easy to read even under unfavorable lighting conditions.

Keeping your distance. The operator terminal can be completely separated from the weighing unit and positioned up to five meters away.





Proceed with caution.
Operation without contact, thanks to SmartSens.
Ideal in contaminated environments.

Keep your hands
to yourself. Thanks
to SmartSens you
can weigh without
ever touching the
balance: taring,
printing, opening
and closing the
door, weighing —
all automatic.

A shared resolution.

Highest accuracy with the smallest samples.

	Weighing range electronically accurate to 0.0001 mg
	Comprehensive product range with capacities up to 510 g
	High-resolution models for smallest samples
	proFACT for fully automatic calibration and linearity adjustment
	MinWeigh for utmost certainty when weighing very small quantities

A new benchmark.

METTLER TOLEDO has again set new standards for analytical weighing with its UMX and MX microbalances and its AX analytical balances.

Safety factor.

Sophisticated electronic circuitry, with high computing power, filters out environmental disturbances during weighing, such as shaking and air circulation, more effectively than ever. This produces results at accuracies and speeds never before achieved.

Automatic precision.

Even the slightest environmental influences such as temperature fluctuations affect the weighing results. The built-in proFACT automatic calibration system counteracts this. When the balance goes outside set tolerances, it uses built-in weights to recalibrate itself fully automatically. At the same time linearization is carried out over the entire weighing range. This means that proFACT reduces your costs, because you can forget those daily checks using external weights.

Precious little.

UMX, MX and AX balances offer high maximum loads at a most accurate readability down to 0.1 µg. This means that some models have up to 50 million divisions of resolution. So you can work with even smaller samples and easily comply with international regulations for a defined minimum allowable weight.

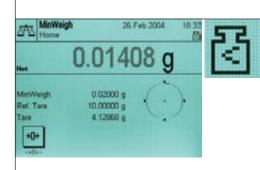
"Today, particularly in the field of molecular biology, we work with extremely expensive substances and compounds. There is therefore scope for reducing costs, and we take advantage of balances such as the new AX, MX and UMX from METTLER TOLEDO to do just this. It is fantastic how these balances achieve the specified standard deviations, even with the smallest of samples, and thus guarantee valid weight measurements."

Taro Yamada, Lab Manager



100% correct weighing results. MinWeigh warns unmistakably with a weight symbol and gray display if the minimum weight allowed by international guidelines is fallen below. Which ensures that expensive substances are used optimally and not wasted.

You will find more information about MinWeigh on page 18.





Calibration. Fully automatic, thanks to proFACT. The AX lowers two built-in weights automatically onto the weighing pan, ensuring that you continue to weigh with optimum precision at all times over the entire weigh-

ing range.

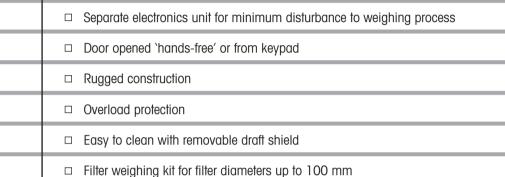
Minimal. Smaller minimum samples are possible thanks to unprecedented accuracies with the additional inner draft shield on the AX balance.



Little difference. With Delta-Range models, a fine weighing range with ten times the accuracy of the regular range is recalled every time the balance is tared within a certain range. This is ideal when using heavy tare containers for very small samples.

7

On a fine scale. UMX ultra-microbalances and MX microbalances.





Earlier models set new standards The performance of UMX and MX balances is already making them a few years ago, and are today regarded as the industry benchmark. valued instruments in metrological Now the latest ultra-microbalances institutes for the certification of weights. And their operation is just and microbalances represent a as simple and convenient as with marked improvement with new analytical balances. electronics and fine honing of every detail. Here again our aim was to

Practical solutions.

tions.

Details count.

Despite the sophisticated and clever technology which is used to perform a weighing operation with an unprecedented 50 million calibration divisions, the concept of this high-end balance is completely practical. Every detail bears witness to this. As you work from one sample to the next, you will see that the new METTLER TOLEDO UMX and MX microbalances are designed to boost efficiency, increase reliability and guarantee network compatibility.

fulfill the wishes and needs of users, or better, to exceed their expecta-



Accessible from both sides. You can place objects in the

"C'est magnifique, when the best

gets even better. Like with the new MX and UMX balances from

METTLER TOLEDO. Now we can

be certain that we are obtaining

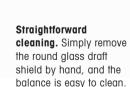
valid results even with

minimum-weight samples."

weighing chamber from the left or the right: the motorized draft shield can be operated hands-free, from the keypad or by hand. In addition, the glass draft shield cover can be removed for applications that require it.



Highly accurate differential weighing. With a reproducibility never before achieved. The filter set is designed for weighing the finest traces of filter











balances, samples of up to 5 g can be

weighed to an accuracy of 0.1 µg.

residue (filters up to 110 mm diameter).

Freedom of movement.

With AX semi-microbalances and analytical balances.

	Door opened on approach or by pressing a key
	Automatic opening for left- or right-handed operation
	Free access to weighing pan with no cross-struts
	Rugged metal housing
	Low-profile square weighing pan



"I can reach the weighing pan from the side that suits me best. Being left-handed, that makes my life a lot easier. And that's the great thing about the AX – handy to use, just like I wanted."

Gisela Bender, lab technician

Practical considerations.

These have led to the unequaled design of the draft shield on semimicrobalances and analytical balances. It can be opened completely. Or only on the side preferred by left- or right-handed users. Or at one side only, for left- or righthanded operators. With hands-free actuation or at the touch of a key, the doors slide open and shut automatically. This is what we mean by convenience. But above all, efficiency.

Long-term decisions.

The materials used to make these balances - glass, metal and performance polymers – are of the highest quality. They are resistant to acids. Cleaning is easy, since there are virtually no awkward grooves or recesses. METTLER TOLEDO balances withstand the rigors of intensive daily use undamaged.

Convenient operation.

The display is easy to read, and the keys are arranged for maximum clarity. A generously dimensioned low-profile weighing pan allows you to rest your hand on the benchtop when weighing in formulations. The weighing chamber is easy to clean.

> Free access for robot arms. The generously dimensioned weighing chamber, with no crossstruts, offers unobstructed access from three sides when required.



Detailed print-outs. ISO- and GLP-compliant reports printed by the GA42 on plain paper. It documents the calibration procedures initiated automatically by the AX together with the date, sample and identification numbers, time of day, type of instrument and serial number, and marks a space for your signature.



Free access to the weighing

pan. The three-part draft shield can be opened as a whole, leaving no cross-struts to obstruct access. However, it can also be opened only at the top, left side or right side to access the weighing chamber. So you only need to open the chamber just enough for the weighing task concerned.



ber at the left, at the right or entirely, depending on the active configuration, when a hand approaches the balance. The front pane provides a protection against radiant heat from the person working with the balance.



Free access to weighing chamber. SmartSens opens the weighing cham-



Easy on the arm. When dosing into low containers you can rest your hand on the benchtop, since the weighing pan is at such an unusually low level.

- □ Built-in user-guided software as standard
- ☐ For density determination, differential weighing, PipetCheck, plus-minus weighing,

piece counting

□ Optional second interface, LocalCAN or RS232

Plug and weigh.

The AX, MX and UMX interface concept guarantees maximum flexibility. One RS232 interface is fitted as standard. You can also equip the balances with an additional RS232 interface, a LocalCAN universal interface or a downward-compatible interface.

Programmable for the future.

LocalCAN is a particularly safe investment in future technology. The possibility of programming it externally means that this interface can also comply with future standards. In addition, it enables up to five peripheral devices to be connected at the same time.

Integration into existing systems.

If an AX, MX or UMX balance needs to be integrated into an existing system configuration, the 'Mini-Mettler' interface is ideal.

Task-specific adaptability.

Practical methods for various frequently used applications are incorporated as standard software.

Density determination. You can calculate the density of solid objects and liquids directly with the buoyancy method. The result is displayed immediately on the balance screen.

Differential weighing. Frequently a routine task: measuring the difference between initial and residual weights as a percentage and in grams. With this application you are free to specify your own working method and sequence.

Pipette checking. The gravimetric method is a particularly reliable and simple way of verifying the accuracy of a pipette. All the data, results, and tolerances of 20 pipettes can be saved in the database. The data, results, and tolerances of 20 pipettes can be stored.

Versatility. The flexible interface concept allows several devices to be connected at the same time. Whether you use an RS232 interface or, with the future in mind, a LocalCAN interface: just connect the peripherals – and you're in business.

Straight talking. You are guided through the differential weighing procedure step by step. Naturally in the language of your choice: English, German, French, Spanish, Italian, Japanese, or Russian.

--- METTLER TOLEDO ---DIFFERENTIAL WEIGHING

1 T 36.22242 q

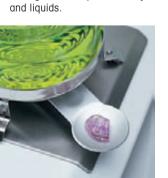
1	NI	0.97806 g	
1	ND	0.97515 g	
Diff.:		-0.2975 %	
2	T	36.22191 g	
2	NI	0.98890 g	
2	ND	0.98593 q	
Diff.:		-0.3003 %	
3	T	36.22189 g	

3 NI 0.98115 g 3 ND 0.98569 g Diff.: 0.4627 %

Signature:

----- END -----

Sophistication. The density kit, accessed from the left or the right, with software already incorporated in the balance for automatically determining the density of solid objects

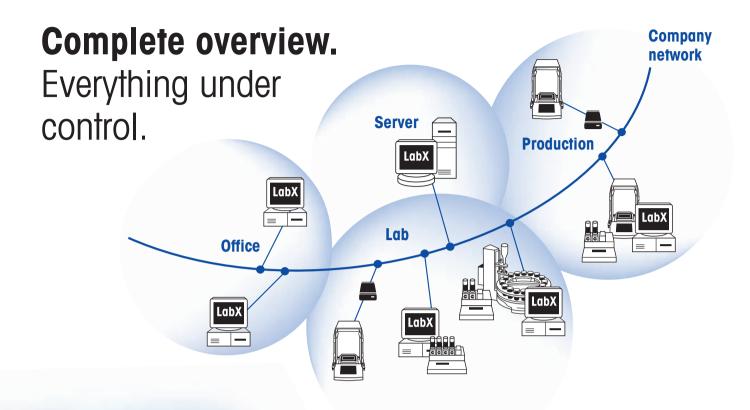


Reliability. The pipette checking application is a very simple and reliable method for verifying the precision and accuracy of your pipettes. Giving you confidence at all times when pipetting.



Pipetting with METTLER TOLEDO.
RAININ, a METTLER TOLEDO company, offers a complete system of band friendly pipettes tipe, and

pany, offers a complete system of hand-friendly pipettes, tips, and accessories. You will find more information at www.mt.com



Monitor your measurements – with LabX, from wherever you like.

LabX allows measurements with AX/MX/UMX balances and titrators to be monitored from anywhere in the network. Just connect your instruments to a PC or directly to your company's Ethernet network and you can validate the data from your office or observe measurements in real time while you work at another workplace.

Direct access to LabX from a balance.

You can work with LabX without ever touching a computer. Balances like the AX, MX, and UMX allow you to login to LabX directly from the balance. To do so, the balance does not even have to be directly connected to a computer: just connect it to your company network via the METTLER TOLEDO e-Link box.



LabX helps you to simplify your daily work in many areas. For example, you can import your sample data directly from LIMS, create templates for daily routine analyses, prepare statistics and control diagrams, and much more besides. LabX provides you with an array of templates for simple and differential weighing so you can greatly simplify your application structure.

Completely efficient instrument management.

With LabX you can manage your instruments centrally. Operations

such as validating calibration data, or updating methods, can be per-

formed on the same PC. If desired,

changes can be implemented glob-

ally for all connected instruments. So you save time and avoid errors.



LabX software for balances

	pro balance	light balance		
METTLER TOLEDO	Balances AX, MX, UMX, AG, XS, XP,			
instruments supported	PR, SR, PG, PG-S, SG, AT, MT, UMT			
Client/server architecture	•			
Control of multiple instruments	•			
Instrument management	•	•		
21 CFR Part 11 support	•			
Direct access from balance (RapidAccess)	•			
Online view/control in real time	•	•		
Task/methods editor	•	•		
Automatic statistics/control diagrams	•	•		
Report generator	•	•		
LIMS connectability	•			



If you have questions please do not hesitate to contact us or visit our website at

www.mt.com/LqbX

Complete support for 21 CFR Part 11.

LabX provides all the tools needed for FDA-compliant data management and storage according to 21 CFR Part 11. These include comprehensive user management, access protection, electronic signature capability, and audit trail functionality. For system validation METTLER TOLEDO offers comprehensive support as well as a two-volume validation manual so that your validation costs stay within limits.



Integrate your instruments into your network with e-Link

e-Link Ethernet Interface allows you to integrate balances, titrators, checkweighers, and terminals into your network without any adaptation of software or hardware, and with e-Link IP even in wet or hazardous areas. e-Link offers everything needed for networking — a processor, a rugged TCP/IP stack, a webserver, and a network connection to create an Ethernet bridge to your serial devices. You will find more information on our website at www.mt.com/elink



System solutions for maximum process optimization. e-Link can be integrated into existing software solutions such as LabX and FreeWeigh.Net.



Standard features

- Backlit graphic display with touch screen operation
- ProFACT, fully automatic temperature-driven calibration and linearization.
- calibration and linearization

 Built-in RS232 interface; plug-in module avail-
- able for optional second interface of your choice
 Glass draft shield with automatic door opening
 and removable cover
- SmartSens for hands-free operation
- Replaceable protective cover
- Below-the-balance weighing facility
- AC/DC adapter for connection to AC power line
- Country-specific power cable
- Weighing adapter for optimum adaptation to ambient conditions

All models can:

- Download software from the Internet
- Display various units of weight
- Determine the density of solids and liquids
- Perform differential weighing
- · Check the precision of pipettes
- Make statistical evaluations
- Calculate with factors
- Carry out piece counting and percent weighing operations
- Be tared over the entire weighing range
- MinWeigh (activated by local MT Service at your workplace)

AX-SE – for weighing in contaminated or underpressure environments



Thanks to a separate control unit for all AX modules the electronics can be placed separate from the weighing cell.5 m cable.

Part no. 11100030



5 m terminal cable with cover plate.

Part no. 11100081

Filter weighing

Special filter sets for MX micro and AX semi-micro balances. Suitable for filters up to 110 mm diameter. The special construction largely prevents disturbing environmental influences.



For balance models:

AX26, AX26DR AX105DR AX205, AX205DR

AX filter set for filters up to Ø 105 mm

Part no. 210470

For balance models:

MX, UMX

Filter sets for filters up to Ø 50 mm	Filter sets for filters up to Ø 110 mm		
Part no. 211214	211227		

U ionizer

Usable with practically all balances and weighing objects, the ionization system comprises a U-shaped ionizer and a high-voltage power supply unit. The object or container being weighed is discharged by being passed through the U ionizer when loading the balance. The object being weighed is neutralized. The neutralization process takes only seconds. Although the ionizer uses a high voltage, it can be touched with absolute safety. You will find more information about antistatic solutions in our separate brochure.

Accessories

- LocalCAN universal interface module
- RS232 interface module
- MiniMettler interface module
- Auxiliary display
- Interface cable
- BalanceLink PC software for data acquisition by a PC
- Foot switch

0.04 mg +6x10⁻⁸•Rgr

 $\sqrt{8x10^{-12}g \cdot Rnt}$

120 mg +1.5x10⁻⁴•Rgr 1200 mg +1.5x10⁻³•Rgr 120 mg +1.8x10⁻⁴•Rgr 120 mg +1.8x10⁻⁴•Rgr 1500 mg +6x10⁻⁴•Rgr

2.5 x 10⁻⁷ • Rnt

6x10⁻⁷•Rnt

0.04 mg +6x10⁻⁸• Rgr

 $\sqrt{8x10^{-12}g \cdot Rnt}$

2 x 10-7 • Rnt

8x10⁻⁷•Rnt

0.5 mg +2x10⁻⁷•Rgr

0.04 mg +4x10⁻⁷•Rgr

√ 1.5x10-11⋅Rnt

120 mg +1.2x10⁻³•Rgr

2 x 10-7 • Rnt

8x10⁻⁷•Rnt

Carrying case





RS-P42 printer

The RS-P42 printer docu-

ments the measurement

values from the UMX, MX.

and AX simply and secure-

ly according to guidelines

of modern Q systems.

For simple weighing of small

For balance models: MX/UMX

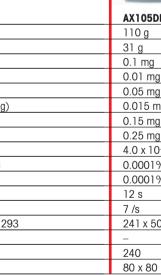
MX/UMX funnel set

amounts of powdery substances.

211220

Funnel set

Technical data (threshold values)	UMX2	UMX5	MX5	AX26	AX26DR
Maximum capacity	2,1 g	5,1 g	5,1 g	22 g	21 g
Maximum capacity of fine range	_	_	-	_	3 g
Readability	0,0001 mg	0,0001 mg	0,001 mg	0,001 mg	0,01 mg
Readability in fine range	_	_	_	-	0,002 mg
Repeatability (sd) at maximum capacity	0,00025 mg	0,0004 mg	0,0009 mg	0,002 mg	0,006 mg
Repeatability (sd) (at gross capacity)	0,00025 mg (0,2 g)	0,00025 mg (0,2 g)	0,0008 mg (0,2 g)	0,0015 mg (1 g)	0,002 mg (1 g)
Linearity	0,001 mg	0,004 mg	0,004 mg	0,006 mg	0,008 mg
Corner load at 1/2 maximum capacity 1)	0,0025 mg	0,005 mg	0,005 mg	0,025 mg	0,025 mg
Sensitivity drift	1,5x10 ⁻⁵	7,0x10 ⁻⁶	7,0x10 ⁻⁶	2,5 x 10−6	3,0x10 ⁻⁶
Temperature drift of sensitivity ²⁾	0,0001%/°C	0,0001%/°C	0,0001%/°C	0,0001%/°C	0,0001%/°C
Stability of sensitivity ³⁾	0,0001%/a	0,0001%/a	0,0001%/a	0,0001%/a	0,0001%/a
Typical weighing time ⁴⁾	16 s	18 s	16 s	16 s	16 s
Update rate of the interface	7 /s	7 /s	7 /s	7 /s	7 /s
Weighing unit dimensions (wxdxh) [mm]	128 x 287 x 113	128 x 287 x 113	128 x 287 x 113	241 x 505 x 293	241 x 505 x 293
Control unit dimensions (wxdxh) [mm]	224 x 366 x 94	224 x 366 x 94	224 x 366 x 94	_	_
Effective height draft shield [mm]	55	55	55	240	240
Weighing pan dimensions (wxd) [mm]	16	16	27	28	32



0.04 mg +1x10⁻⁷•Rgr

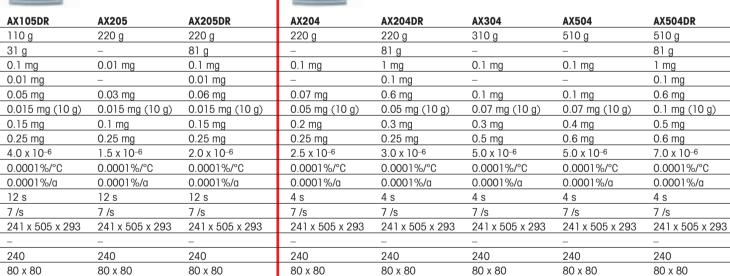
0.01 mg +6x10⁻⁷•Rgr

120 mg +3 x 10⁻⁴ • Rgr 30 mg +1.8 x 10⁻³ • Rgr -

 $\sqrt{6x10^{-12}g \cdot Rnt}$

5 x 10⁻⁷ • Rnt

8x10⁻⁷•Rnt



1) To OIML R76 2) In the temperature range 10...30 °C 3) Stability of sensitivity when first put into operation with proFACT self-adjustment switched on 4) Includes sample handling and stabilization time

0.4 mg +5x10⁻⁷•Rgr

 $\sqrt{1x10^{-11}g \cdot Rnt}$

2.5 x 10⁻⁷ • Rnt

6x10⁻⁷•Rnt

0.04 mg +1.2x10⁻⁷• Rgr

120 mg +3.6x10⁻⁴•Rgr -

0.04 mg +5x10⁻⁸•Rgr

 $\sqrt{5 \times 10^{-12} \text{g} \cdot \text{Rnt}}$

2.5x10-7 • Rnt

6x10⁻⁷•Rnt

Typical data for calculating the measurement uncertainty

Typical repeatability (sd)	0.0002 mg +2.5x10 ⁻⁸ •Rgr	0.0002 mg +3x10 ⁻⁸ •Rgr	0.0005 mg +4x10 ⁻⁸ • Rgr	0.001 mg +2.5 x 10 ⁻⁸ Rgr	0.004 mg +5x10 ⁻⁸ • Rgr
Typical repeatability in fine range (sd)	-	-	-	-	0.0015 mg +5x10 ⁻⁷ • Rgr
Typical differential non-linearity (sd)	√ 1x10 ⁻¹⁴ g•Rnt	$\sqrt{8x10^{-14}g \cdot Rnt}$	√ 8x10 ⁻¹⁴ g•Rnt	√ 5 x 10 ⁻¹⁴ g • Rnt	$\sqrt{8x10^{-14}g \cdot Rnt}$
Typical differential corner-load deviation (sd)	2.5 x 10 ⁻⁷ • Rnt	3x10 ⁻⁷ •Rnt	3x10 ⁻⁷ •Rnt	2.5 x 10 ⁻⁷ • Rnt	2.5 x 10 ⁻⁷ • Rnt
Typical sensitivity drift (sd)	3x10 ⁻⁶ •Rnt	1.5 x 10 ⁻⁶ • Rnt	1.5x10 ⁻⁶ •Rnt	8x10 ⁻⁷ •Rnt	8x10 ⁻⁷ •Rnt
Typical minimum weight (per USP)1)	0.6 mg +7.5 x 10 ⁻⁵ • Rgr	0.6 mg +9x10 ⁻⁵ •Rgr	1.5 mg +1.2x10 ⁻⁴ •Rgr	3 mg +7.5x10 ⁻⁵ •Rgr	12 mg +1.5x10 ⁻⁴ •Rgr
Typical minimum weight (per USP) in fine range ¹⁾	-	-	-	-	4.5 mg +1.5x10 ⁻³ •Rgr

sd: Standard deviation Rgr: Gross weight Rnt: Net weight (sample weight) a: Year (annum)

30 mg +1.8x10⁻⁴•Rgr 120 mg +1.5x10⁻⁴•Rgr

0.04 mg +5x10⁻⁸•Rgr

 $\sqrt{3x10^{-12}g \cdot Rnt}$

2.5 x 10⁻⁷ • Rnt

6x10⁻⁷•Rnt

0.01 mg +2.5x10⁻⁷• Rgr

30 mg +7.5 x 10⁻⁴ • Rgr

0.01 mg +6x10⁻⁸• Rgr

 $\sqrt{1x10^{-12}g \cdot Rnt}$

2.5 x 10⁻⁷ • Rnt

6x10⁻⁷•Rnt

1) The minimum weight can be improved by the following measures: Choice of more suitable weighing parameters, selection of a better location, use of smaller tare containers, use of an inner draft shield

When very small weights are highly important.

MinWeigh, another innovation from METTLER TOLEDO.

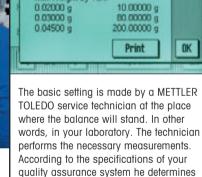
MinWeigh is the new "Quality Application" for AX, MX, and UMX balances. MinWeigh revolutionizes weighing where very small weights become highly important because quality management demands absolute compliance with specified tolerances. Because MinWeigh answers the minimum weight question with unprecedented precision.

Central challenge: Standards.

MinWeigh provides an outstanding service where guidelines of a quality assurance system such as GLP or GMP apply.

Central question: quality. In a quality management system, measurement uncertainty cannot be left to chance. It must lie within defined limits. How large must the minimum weight be to come inside the tolerances of the quality management system?





the minimum weight with the best possible

settings and the typically used tare weight.

Min. Weight by Tare

| MinWeigh | 26 Feb 2004 | 18:33 | 26 Feb 2004 | 18:33 | 26 Feb 2004 | 18:33 | 26 Feb 2004 | 18:35 | 26 Feb 2004 | 2

the display changes from gray to black.

The weight symbol disappears.

Central function: MinWeigh.

METTER TOLEDO offers a solution for the minimum weight with the MinWeigh application which is built into the AX/MX/UMX balances. MinWeigh knows the required minimum weight. If the minimum weight is not reached, MinWeigh detects the error and warns you via the balance terminal. Further use of non-compliant weighing results is prevented.



If the minimum weight is not reached, the net weight is marked with an asterisk on the report

Tailored service from METTLER TOLEDO. We offer the corresponding all-round service for balances which form part of a quality management system or are used in regulated areas.

Systematic control of inspection, test, and measuring equipment is more important than ever before. Not only as a crucial component of seamless quality assurance but also as an additional instrument for permanently reducing costs. It also avoids complaints by inspectors and auditors. The Q-circle (qualification/validation) illustrates simply how the regulations are applied in practice to a balance and how we can support you with our services in all areas.

Suitable for:

- Companies which comply with GMP, GLP, ISO
- FDA regulated areas
- Pharmaceutical industry
- Chemical industry (suppliers to the pharma industry)
- Biotechnology
- Food industry
- Electrical, metal, and automobile industries



Design Qualification (DQ)

Define the requirements for a product according to the specification, regulations, and compliances.

Installation Qualification (IQ)

Correct and documented installation at the right location.

Operational Qualification (OQ)

Check and confirm the required performance data.

Performance Qualification (PQ)

Check that in normal operation the instrument constantly performs according to specification.

Maintenance Qualification (MQ)

Periodic mainten

Make sure that your balance is optimally configured to your needs right from the start. Qualification of your balance ensures precision, reliability, and a long service life. Benefit from the worldwide know-how and years-long experience of METTLER TOLEDO. Combine our different service offerings into an optimal solution for your service needs.

Packaged service. Tailored to your needs.

Service Packages

Simply select the appropriate service package according to the demands placed on the balance. You can add further services to ensure the package matches your changing requirements.

Service specialists

With sales and service companies in more than 100 countries,
METTLER TOLEDO ensures you are cared for by highly trained specialists.

Service know-how

Knowledge and practical experience is exchanged within our global service network – for your benefit, too.

www.mt.com/service

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- KZ Mettler-Toledo CA, 480009 Almaty Tel. (07) 3272 980 834, Fax (07) 3272 980 835
- MY Mettler-Toledo (M) Sdn. Bhd., 40150 Selangor Tel. (03) 784 55 773, Fax (03) 784 58 773
- MY Mettler-Toledo (S.E.A.), 40150 Selangor Tel. (03) 7845 5373, Fax (03) 7845 3478
- MX Mettler-Toledo S.A. de C.V., México C.P. 06430 Tel. (05) 547 57 00, Fax (05) 541 65 13
- Mettler-Toledo B.V., NL-4004 JK Tiel Tel. (0344) 638 363, Fax (0344) 638 390
- PL Mettler-Toledo, Sp. z o.o., PL-02-929 Warszawa Tel. (22) 651 92 32, Fax (22) 651 71 72
- RU Mettler-Toledo C.I.S. AG, 10 1000 Moskau Tel. (95) 921 92 11, Fax (95) 921 63 53
- SE Mettler-Toledo AB, S-12008 Stockholm
- Tel. (08) 702 50 00, Fax (08) 642 45 62 Mettler-Toledo (S) Pte. Ltd., Singapore 139959 Tel. 65-6890 0011, Fax 65-6890 0012/13
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For all other countries:

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PO Box VI-400, CH-8606 Greifensee Tel. +41-1-944 22 11, Fax +41-1-944 31 70





Quality certification. Development, production and auditing in accordance with ISO9001. Environmental management system in accordance with ISO14001.



Worldwide service. Our dense service network, among the best in the world, ensures the maximum availability and lifespan of your product.



«Conformité Européenne». This label is your guarantee that our products conform to the latest guidelines.



Now on the Internet. You can find important information about our products and services, as well as our company, quickly and easily at http://www.mt.com

