

# XS Analytical Balances



**Excellence XS Analytical Balance**

Innovative Ergonomics

Utmost Efficiency

**Weighing on air?**  
That's right!

**METTLER TOLEDO**

# Weighing on air for greater efficiency!

- **SmartGrid, the grid weighing pan for faster, more stable results**
- **ErgoClips, the accessory for tailored weighing solutions**
- **Ingenious left/right hand operation of the draft shield for higher productivity**

## Lateral thinking, lateral fastening.

Every development reaches a limit when its basic principle has been fully exploited. After that, only fundamentally new solutions bring further progress – this also applies to analytical balances.

Inspired by customers' need for greater efficiency, METTLER TOLEDO has given a refreshingly new interpretation to weighing with the XS analytical balance. The result: a weighing pan which - thanks to being supported, uniquely, at the rear of the weighing chamber - "floats" in space. Technically a breakthrough, with a clear customer benefit: weighing becomes more efficient than ever before.

## Less air resistance, more speed.

Another sensation is SmartGrid, the new grid weighing pan. By comparison with traditional weighing pans, it has only a minimal area in the weighing chamber for turbulence to act upon – with maximum

effect. Stabilization time is shortened noticeably; the result is available faster.

## Grid as basis, system as result.

Weighing substances into special containers such as round-bottom flasks or test tubes, is this part of your daily work? Then there's one advantage of the grid weighing pan you'll especially like: the facility to radically simplify such operations with ErgoClips. In combination with the weighing kit, available separately, the SmartGrid grid weighing pan becomes an ergonomic weighing system which can be precisely adapted to specific tasks and help to increase productivity.



If you want a solid supporting surface, you place a disposable aluminum pan on the SmartGrid.

If you work with toxic substances, you dispose of the aluminum tray after every weighing operation.



Operate here, open and close there: You can push at the left – and the draft shield opens to the right. Or vice versa. So you always have one hand free for weighing.

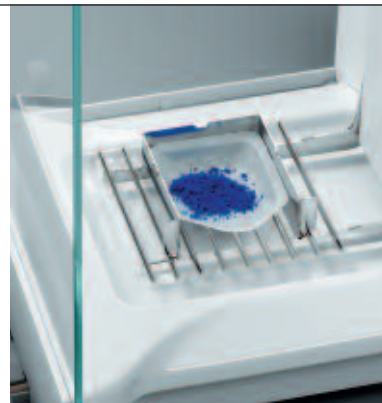
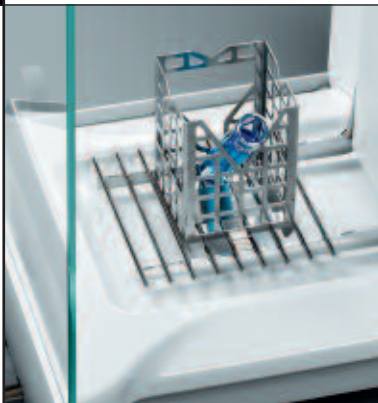


As tough and stable as a conventional weighing pan: SmartGrid is fixed firmly and ruggedly made.



SmartGrid, the revolutionary grid weighing pan, minimizes the effect of air turbulences in the weighing chamber. The result: stabilization times are reduced significantly.

With the accessory "ErgoClips", which can easily be fastened on the grid weighing pan, you can tailor the XS to your weighing task. ErgoClips, the holders for round-bottom flasks, test tubes, and plastic tubes, greatly simplify specific weighing tasks.



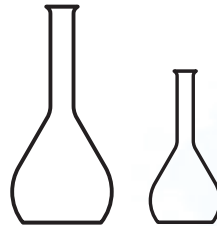
# Customize your weighing with ErgoClips.

- ErgoClips, for secure placement of all tare containers
- One-step dispensing directly into tare containers
- More stable weighing results by eliminating static electricity effects



## ErgoClip Flask:

Specialized for one-step weighing of small sample amounts directly into a graduated flask. Due to the ErgoClip's reduced surface area, weighing results are extremely fast and precise. Placement angles are freely adjustable.



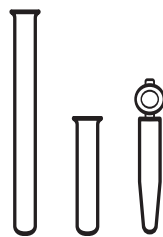
## MinWeigh Door:

A draft shield with an adjustable opening. Perfect in combination with ErgoClip Flask, for shorter stabilization times and smallest minimum sample weights.



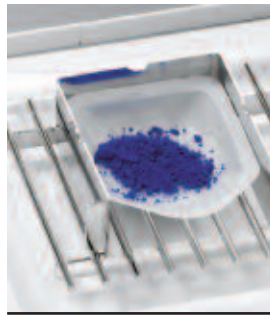
## ErgoClip Tube:

This ErgoClip is a set with two tube holders, suitable for several different standard reaction tubes. Placement angles are freely adjustable.



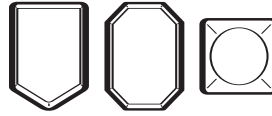


Various types of ErgoClips are available for your specific weighing tasks. Using ErgoClips will enhance the productivity and security of your weighings.



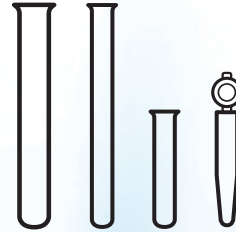
**ErgoClip Weighing Boat:**

Perfect for plastic weighing boats.



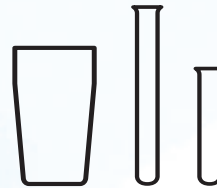
**ErgoClip Basket Small:**

Designed for various test tubes of different sizes.



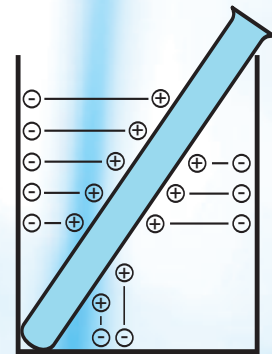
**ErgoClip Titration Basket:**

This ErgoClip is ideal for titration beakers or other large vessels.

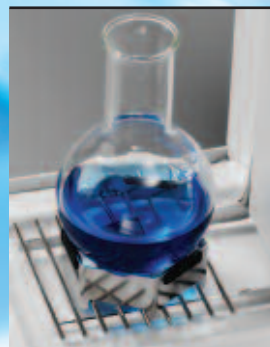


**Another advantage of basket-type ErgoClips: static electricity is greatly reduced.**

Distortion of the weight value due to statically charged samples or tare vessels made of plastic or glass is reduced by the **Faraday-shield effect** of the grid basket.

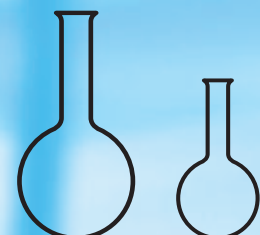


The electrostatic force lines are screened by the basket.



**ErgoClip Round-Bottom Flask:**

Suitable for various sizes of round-bottomed flasks, to guarantee secure placement.



# Hassle-free cleaning?

## Look no further.

- Draft shield can be completely dismantled
- Easy cleaning thanks to the inner base plate
- Contamination of the weighing cell and adjustment weights is prevented
- Dishwasher-safe glass and plastic

### If there's nothing there, nothing can get in the way of cleaning.

Thanks to the SmartGrid grid weighing pan, cleaning is completed quickly. Because the weighing pan is fastened to the back wall, there are no openings or gaps where powders or liquids can enter – only an inner base plate which you can remove easily and clean quickly. And you save time, which you can use productively for other work.

### What machines can do, let machines do.

The chemical and acid-resistant draft shield of the Excellence XS analytical balance can be completely dismantled. That's done very quickly and easily – then it's the machine's turn – because all parts of the draft shield and weighing pan are dishwasher-safe.

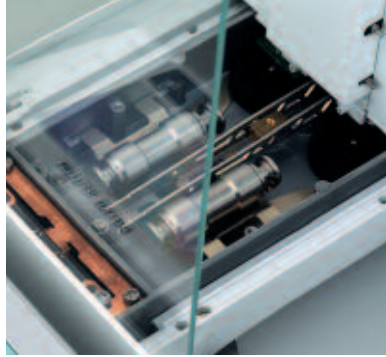


If a substance being dispensed falls outside the container, it no longer distorts the weighing result. Thanks to the grid weighing pan, the substance simply falls into the tray beneath.

Dismantling the draft shield is as easy as this. Neither can anything go wrong when you reassemble it.



An important detail which makes life easier for you: With the handle on the top of the balance you can lift the XS and move it aside to clean the bench without hindrance.



The adjustment weights cannot be contaminated or damaged. They are completely protected under the inner base plate.



The inner base plate under the weighing pan can be easily cleaned with either a cloth or a brush, or removed completely. It is also dishwasher-safe.

The draft shield doors can easily be removed and cleaned in the dishwasher.

# Efficiency included.

- Touch-screen display for easy operation
- Clear, graphical user guidance
- Moveable, adjustable operating terminal
- Documentation according to GLP and other quality systems
- Built-in applications as standard
- Design, functionality and aesthetics combined

### Efficiency as key motivation.

Technology for its own sake means nothing to METTLER TOLEDO. With all our ideas, we always ask one decisive question: what can it do in practice? Only ideas which demonstrate increased efficiency have a chance of being implemented as prototypes, and if they prove themselves, being integrated into new products.

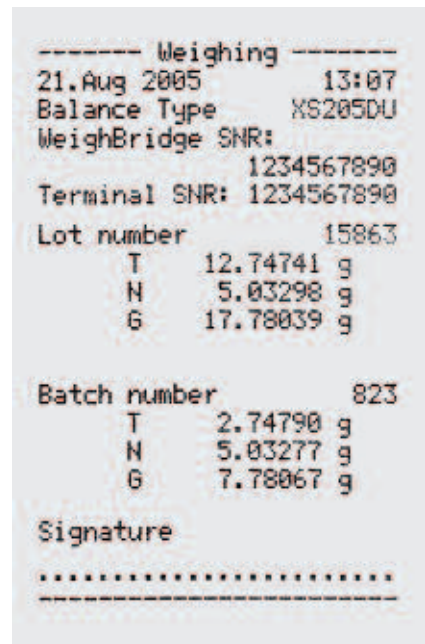
### At work everywhere.

The Excellence XS analytical balance impresses with innovations which systematically pursue one goal: to make your work simpler, safer, and therefore more efficient. For all conceivable applications, in every industry: pharmaceuticals, chemicals, food, or cosmetics. Wherever weighing is indispensable, weighing instruments from METTLER TOLEDO are also indispensable: in research and development, quality control, or routine tasks.



### Not a line too many, not a line too few.

So you can verify your research results at any time, everything can be recorded completely and traceably. There is an increasing demand for complete documentation according to GLP.



The XS analytical balance allows you to configure the report however you like.



**Facts from figures:** The individually configurable statistics program makes evaluations amazingly simple.

**One after the other:** The XS guides you safely and reliably through formula weighings. At the end, it records the weights of the individual components and the total weight.





Thanks to alphanumeric input, you can identify your sample easily and securely.

**Short of space?** You can also place the operating terminal next to the balance or behind it. Poor light conditions? The angle of the terminal is adjustable.



**Bluetooth**

Allows wireless communication between balance and printer up to a distance of 10m. So you can place the printer wherever you want it – with no cable to worry about.



**Second interface**

As well as an RS232 interface fitted as standard, the XS has an optional, easily insertable second interface allowing seven different connection possibilities. Select from Bluetooth, Ethernet, PS/2 or USB: the Excellence XS connects to them all.

**Clearly understandable menus:**

Operation is made easy by means of a touchscreen display and clearly structured menus. For plain-text dialog you can choose between English, French, German, Spanish, or Italian.

**METTLER TOLEDO**

# A solution to get immersed in.

- Fully integrated solution for density determination
- Touch-screen display for easy operation
- Clear, graphical user guidance which is easy to follow

Where required, the thermometer and glass sinker are available in certified versions.

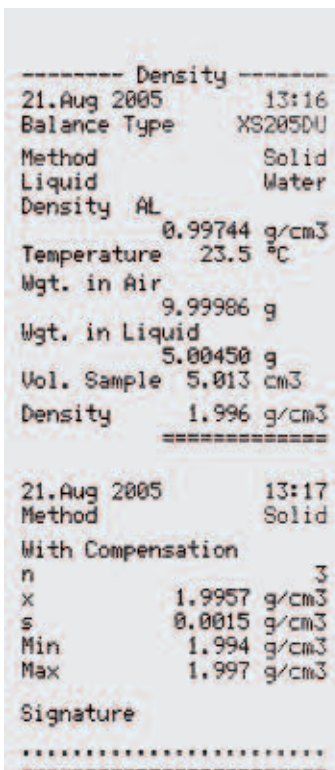
### Full integration.

The Excellence XS analytical balance is also practical and efficient for special applications. The fully integrated solution for determining the density of solids, liquids, and pasty substances impressively demonstrates this. For example, the balance software already contains density tables for water and ethanol.



### Utmost accuracy.

This accessory for density determination – and the other accessories – is perfectly matched to the Excellence XS analytical balance. For example, a thermometer ensures utmost measuring accuracy and traceability. What's more: where required, certified versions of the thermometer and the glass sinker are available from METTLER TOLEDO.

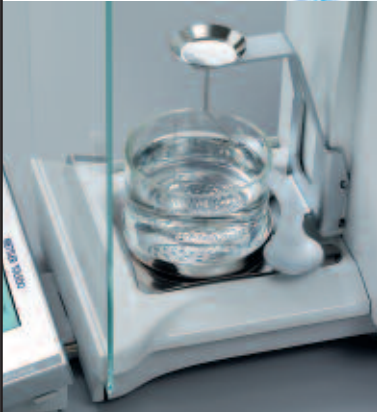


If you would like to know the volume of the sample, this is calculated automatically.

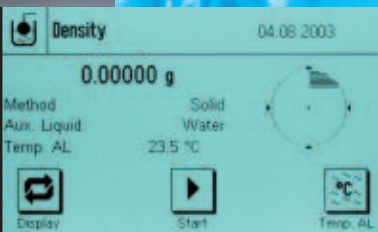
The result can be displayed in various units and different resolutions, depending on the desired accuracy.

If you wish to find the density of the sample using multiple determinations, you have a statistics module available for each method.

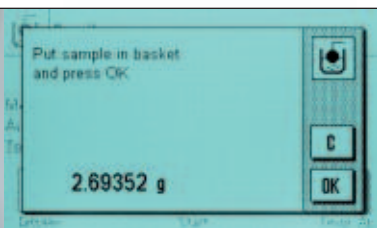
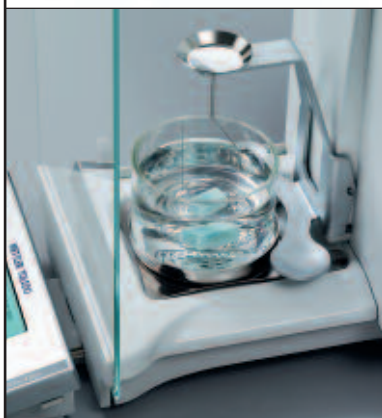
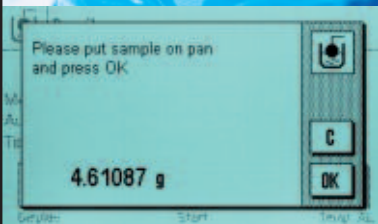
Configure the program to meet your needs. After that, the display guides you through the determination step by step.



The analytical balance with the density kit, ready for the density determination.



With a keystroke you start the determination. Now you prepare the sample for weighing in air.



Next, put the sample into the basket for measurement in the liquid. The density is then determined automatically.

# Outstanding technology for precise results.



**Perfection where no one sees it.** For weighing below the working surface, the balance is fitted with a special hanger.

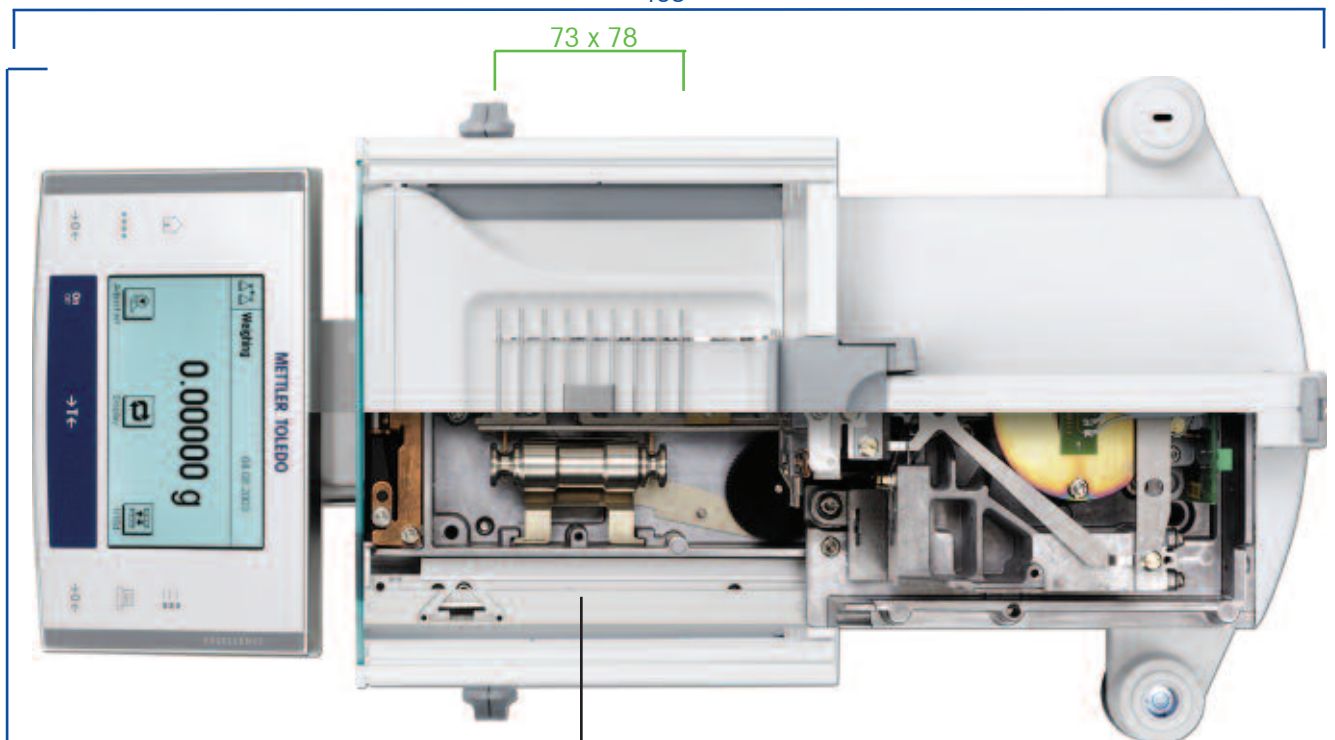


150

453

73 x 78

263



**Conspicuous innovation.** The concept of transferring the mass forces outside-ways will characterize the coming generation of analytical balances.



## XS analytical balance

### Standard equipment

- Backlit graphics display with touch-screen operation
- FACT fully automatic temperature-controlled internal adjustment
- Stainless steel weighing pan
- Weighing adapter for optimal adaptation to the environment
- RS232 interface built in; plug-in module for optional second interface available
- Glass draft shield with flexible configuration
- Protective cover for the terminal, replaceable
- Feedthrough for weighing below the balance
- AC/DC adapter for power supply connection: primary 100–240V, –15%/+10%, 50/60 Hz, 0.8 A, secondary: 12VDC ±5%, 2.25 A (electronic overload protection)
- Country-specific power supply cable
- Weighing adapter optimum adaptation to the weighing environment

### All models can / offer

- Download software via the Internet
- Show various different weighing units
- Be tared over the entire weighing range
- Be adapted to the environment
- Be adapted to the type of weighing
- Determine the densities of solid, liquid, and pasty substances
- Formula-weigh and totalizing
- Piece counting
- % Weighing
- Display statistics with  $\pm$ , %
- Calculate coefficients
- Alphanumeric sample ID
- Communicate in different languages:  
e, f, g, i, sp, russ, jp

Technical data - Limit values	XS105DU	XS205DU	XS64	XS104	XS204	XS204DR
Maximum capacity	120 g	220 g	61 g	120 g	220 g	220 g
Readability	0.1 mg	0.1 mg	0.1 mg	0.1 mg	0.1 mg	1 mg
Maximum capacity, fine range	41 g	81 g	-	-	-	81 g
Readability, fine range	0.01 mg	0.01 mg	-	-	-	0.1 mg
Repeatability - at nominal load (measured at)	0.1 mg (100g)	0.1 mg (200g)	0.1 mg (60g)	0.1 mg (100g)	0.1 mg (200g)	0.7 mg (200g)
- at low load (measured at)	0.05 mg (10g)	0.05 mg (10g)	0.07 mg (10g)	0.07 mg (10g)	0.07 mg (10g)	0.5 mg (10g)
- at low load (measured at), fine range	0.02 mg (10g)	0.02 mg (10g)	-	-	-	0.1 mg (10g)
Linearity	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.2 mg	0.5 mg
Eccentric load deviation (test load) <sup>1)</sup>	0.3 mg (50g)	0.3 mg (100g)	0.15 mg (20g)	0.3 mg (50g)	0.3 mg (100g)	0.3 mg (100g)
Sensitivity offset	8x10 <sup>-9</sup> g	4x10 <sup>-9</sup> g	1.5x10 <sup>-9</sup> g	1x10 <sup>-9</sup> g	5x10 <sup>-9</sup> g	5x10 <sup>-9</sup> g
Sensitivity temperature drift <sup>2)</sup>	1.5x10 <sup>-6</sup> g/°C	1.5x10 <sup>-6</sup> g/°C	1.5x10 <sup>-6</sup> g/°C	1.5x10 <sup>-6</sup> g/°C	1.5x10 <sup>-6</sup> g/°C	1.5x10 <sup>-6</sup> g/°C
Sensitivity stability <sup>3)</sup>	2x10 <sup>-6</sup> g/√t	2x10 <sup>-6</sup> g/√t	2x10 <sup>-6</sup> g/√t	2x10 <sup>-6</sup> g/√t	2x10 <sup>-6</sup> g/√t	2x10 <sup>-6</sup> g/√t
Interface update rate	23 /s	23 /s	23 /s	23 /s	23 /s	23 /s

### Technical data - Typical values<sup>4)</sup>

Repeatability (sd)	0.04mg+2x10 <sup>-11</sup> g	0.04mg+2x10 <sup>-11</sup> g	0.04mg+1.5x10 <sup>-11</sup> g	0.04mg+2x10 <sup>-11</sup> g	0.04mg+1.5x10 <sup>-11</sup> g	0.4mg+5x10 <sup>-11</sup> g
Repeatability (sd), fine range	0.01mg+4x10 <sup>-11</sup> g	0.01mg+3x10 <sup>-11</sup> g	-	-	-	0.04mg+2x10 <sup>-11</sup> g
Differential linearity deviation (sd)	√4x10 <sup>-11</sup> g	√2x10 <sup>-11</sup> g	√4x10 <sup>-11</sup> g	√4x10 <sup>-11</sup> g	√2x10 <sup>-11</sup> g	√1.2x10 <sup>-10</sup> g
Differential eccentric load deviation (sd)	1.5x10 <sup>-9</sup> g	8x10 <sup>-10</sup> g	1.5x10 <sup>-9</sup> g	1.5x10 <sup>-9</sup> g	8x10 <sup>-10</sup> g	8x10 <sup>-10</sup> g
Sensitivity offset (sd) <sup>2)</sup>	2x10 <sup>-9</sup> g	1.5x10 <sup>-9</sup> g	1x10 <sup>-9</sup> g	3x10 <sup>-9</sup> g	2x10 <sup>-9</sup> g	2x10 <sup>-9</sup> g
Minimum weight* (according to USP)	120mg+6x10 <sup>-11</sup> g	120mg+6x10 <sup>-11</sup> g	120mg+4.5x10 <sup>-11</sup> g	120mg+6x10 <sup>-11</sup> g	120mg+4.5x10 <sup>-11</sup> g	1200mg+1.5x10 <sup>-11</sup> g
Minimum weight* (according to USP), fine range	30mg+1.2x10 <sup>-11</sup> g	30mg+9x10 <sup>-12</sup> g	-	-	-	120mg+6x10 <sup>-11</sup> g
Minimum weight* (@ U=1%, 2 sd)	2mg+8x10 <sup>-11</sup> g	2mg+6x10 <sup>-11</sup> g	8mg+3x10 <sup>-11</sup> g	8mg+4x10 <sup>-11</sup> g	8mg+3x10 <sup>-11</sup> g	8mg+4x10 <sup>-11</sup> g
Minimum weight* (@ U=1%, 2 sd), fine range	2mg+8x10 <sup>-11</sup> g	2mg+6x10 <sup>-11</sup> g	-	-	-	8mg+4x10 <sup>-11</sup> g
Stabilization time	1.5s	1.5s	1.5s	1.5s	1.5s	1.5s
Stabilization time, fine range	3s	3s	-	-	-	1.5s
Weighing time <sup>5)</sup>	4s	4s	4s	4s	4s	3.5s
Weighing time <sup>5)</sup> , fine range	6s	6s	-	-	-	4s

<sup>1)</sup>According to OIML R76 <sup>2)</sup>In the temperature range 10...30°C <sup>3)</sup>Stability of sensitivity as from first installation with FACT <sup>4)</sup>To be used for estimation of uncertainty <sup>5)</sup>Including sample handling and stabilization time  
sd: standard deviation Rgr: gross weight Rnt: net weight (sample weight) a: year(annum)

\*The minimum weight can be improved and affected by the following measures: - choice of suitable weighing parameters, - moving to better location, - using smaller tare containers

# Accessories – for even greater efficiency.

Weight for tests and adjustments. Guaranteed traceability – [www.mt.com/weights](http://www.mt.com/weights)



Description	Part number
<b>AC adapter protection cover</b>	IP54 AC adapter protection cover 11132550
<b>Anti-static kits</b>	Universal Anti-static kits complete (U-kit) Optional U-electrode for univesal Anti-static kits 11107767 11107764
<b>Anti-theft device</b>	Steel cord 11600361
<b>Auxiliary displays</b>	BT-BLD Bluetooth aux. display for benchtop mounting. Wireless connection. Backlit LCD display. RS/LC-BLDS auxiliary display for benchtop mounting or on balance. Backlit LCD display. LC-AD auxiliary display on benchtop stand with fluorescent display LC-ADS auxiliary display on high benchtop stand with fluorescent display LC/RS-BLD auxiliary display on benchtop stand with backlit LCD display 11132555 11132630 229140 229150 224200
<b>Barcode scanners</b>	RS232C barcode scanner AC adapter for barcode scanner 230V EUR AC adapter for barcode scanner 115V USA 21900879 21900882 21900883
<b>Density kits</b>	Density kit Certified Thermometer for Density Determination Sinkers 10 ml: for density determination of liquids Sinkers 10 ml, certified model 11106706 11132685 210260 210672
<b>ErgoClips</b>	ErgoClip "Basket Small" ErgoClip "Titration Basket" ErgoClip "Weighing Boat" ErgoClip "Round Bottom Flask" ErgoClip "Flask" MinWeighDoor (ideal for use with "ErgoClip Flask") ErgoClip "Tube" Single-use aluminum weighing pan (10 units) Weighing Kit - Set of ErgoClips (Included: ErgoClips "Test Tube", "Weighing Boat" and "Round Bottom Flask"; 20 weighing boat; 10 single-use aluminum pans) 11106747 11106883 11106748 11106746 11106764 11106749 11106784 11106711 11106707
<b>Evaporation trap</b>	Evaporation trap, PC-Volume Option 2 21901263
<b>Filling-process control</b>	LV11 Draft shield door LV11 small-item transporter for automatic loading of small items on the balance 11106715 21900608
<b>LC-Footswitch</b>	Auxiliary footswitch with selectable function for the balance LC-footswitch with selectable function Switchbox; connect up to three balances with LocalCan interface to a printer 11106741 229060 229220
<b>Optional interfaces</b>	BT option: interface Bluetooth, multipoint connection for up to 6 Bluetooth devices BTS option: interface Bluetooth, point-to-point connection Ethernet option: interface Ethernet for connection to Ethernet network PS/2 option: interface for connecting commercial keyboards and barcode readers RS232C option: interface for connection of a printer (RS-P42), computer or titrator LocalCAN option: interface for connection of up to five LC (LocalCAN) instruments MiniMettler option: interface MiniMettler, for connection to older (legacy) systems E-link IP65 EBO1: Ethernet connection to the e-link network with IP65 protection 11132530 11132535 11132515 11132520 11132500 11132505 11132510 11120003
<b>Printers</b>	BT-P42 printer with wireless Bluetooth connection to balance RS-P42: printer with RS232C connection to balance 11132540 229265
<b>Production certificate</b>	Pro Production Certificate for XS balances 11106895
<b>Protective Covers</b>	Protective cover (terminal only) 11106870
<b>Sensors</b>	ErgoSens, optical sensor for hands-free operation 11132601
<b>Software</b>	PC-Volume Kit complete, option3 LabX Pro balance LabX Light balance LabX Direct balance 21901264 11120301 11120317 11120340
<b>Stands and wall mountings</b>	Stand for terminal and printer Terminal wall mounting 11106730 11132665
<b>Terminal cable</b>	Terminal extension cable, 4.5m 11600517
<b>Transport cases</b>	Transport case 11106869

# ServiceXXL

## Because you want results, not promises.

ServiceXXL assures the daily operating certainty and constant performance of your balance for years. Our global service network employs 1200 highly trained and experienced service technicians to provide cost-effective service solutions. Our goal is to ensure the availability of your balances and guarantee full traceability of your results and processes.

In the area of **Equipment Qualification (EQ)** we offer the following services that guarantee full regulatory compliance:

### DQ

**make the right choice**

- Define requirements
- Qualify supplier



The importance of the Design Qualification is often underestimated. Because we know the potential negative consequences, we have developed decision aids that make it easier for you to choose the right balance. Contact your sales representative and let yourself be guided through the DQ process.

### IQ/OQ/PQ

**ensure qualified installation**

- Immediate start-up
- Assure operation according to requirements



With the IPac you ensure professional installation and Initial Qualification of your balance. IPacs are especially suitable for subsequent integration of your balance into an existing quality management system. In addition, activation of MinWeigh ensures that you always stay within defined limits.

### MQ

**protect your investment**

- Optimize up-time
- Ensure accuracy and traceability



Regular servicing by a METTLER TOLEDO service technician guarantees high availability of your balance and seamless traceability of your measurement results. It also ensures that your balance documentation is regularly updated and that you benefit from effective control of costs.

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<b>Brazil</b>	<b>Mettler-Toledo Ltda.</b> , 06455-000 Barueri/São Paulo Tel. (11) 7295 1692, Fax (11) 421 3459
<b>Canada</b>	<b>Mettler-Toledo Inc.</b> , Ontario, Canada Tel (800) 638-8537, Fax (905) 681-8036
<b>China</b>	<b>Mettler-Toledo (Shanghai) Ltd.</b> , Shanghai 200233 Tel. (21) 6485 04 35, Fax (21) 6485 33 51
<b>Croatia</b>	<b>Mettler-Toledo, d.o.o.</b> , HR-10000 Zagreb Tel. 01 29 58 130, Fax 01 29 58 140
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Subject to technical changes  
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Printed in Switzerland 11795378

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