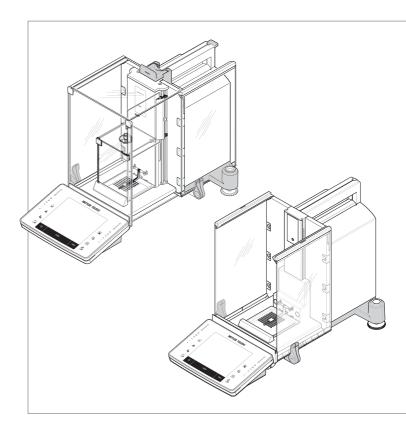
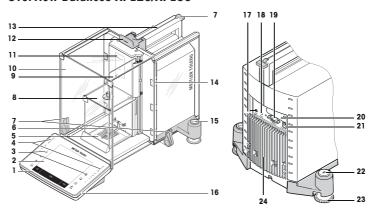
XPE26/XPE56/XPE56Q models





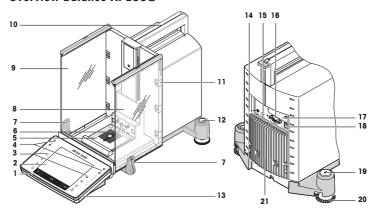
Overview Balances XPE26/XPE56



Legend XPE26/XPE56

•			
1	Terminal	2	Display "Touch screen"
3	Operating keys	4	SmartSens sensors
5	Drip tray	6	SmartGrid weighing pan
7	Handle/Coupling element for the operation of the outer draff-shield doors	8	Inner glass draft shield
9	StaticDetect light	10	Outer glass draft shield
11	Type designation	12	Handle for operation of the outer draft-shield top door
13	Guide for top door of draft shield and handle for transport	14	Removable clips for feeding cables or tubes
15	Level indicator/Level sensor	16	StatusLight
17	Aux 1 (connection for "ErgoSens", hand- or foot-switch)	18	Aux 2 (connection for "ErgoSens", hand- or foot-switch)
19	RS232C serial interface	20	Slot for second interface (optional)
21	Socket for AC adapter	22	Fastening point for anti-theft device
23	Foot screw	24	Cooling element

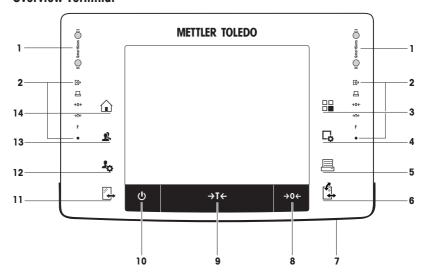
Overview Balance XPE56Q



Legend XPE56Q

1	Terminal	2	Display "Touch screen"
3	Operating keys	4	SmartSens sensors
5	Drip tray	6	SmartGrid weighing pan
7	Handles to operate side doors	8	Rack cover
9	Side doors conductive	10	Handle for transport
11	Removable clips for feeding cables or tubes	12	Level indicator/Level sensor
13	StatusLight	14	Aux 1 (connection for "ErgoSens", hand- or foot-switch)
15	Aux 2 (connection for "ErgoSens", hand- or foot-switch)	16	RS232C serial interface
17	Slot for second interface (optional)	18	Socket for AC adapter
19	Fastening point for anti-theft device	20	Foot screw
21	Cooling element		

Overview Terminal



Key assignments and terminal connection.

		Designation	Explanation
1		SmartSens	Two hands-free sensors.
			Both of these hands-free sensors can be assigned a specific function (e.g. zeroing, printing or display resolution adjustment). See settings for SmartSens and ErgoSens in the respective applications.
2		Status bar	The green icons in the status bar indicate the functions assigned to the SmartSens left or SmartSens right . The F symbol represents a function key. SmartSens is deactivated when no green symbol is illuminated.
			The yellow LED at the bottom of the status bar lights up briefly when a key is selected or a menu function is initiated.
3		Select application	This key is used to select a required application.
4	□,	Configuration	For displaying menus for the configuration of a current application. The application can be adjusted to a specific task via numerous settings.
5	昌	Print	This key is used to transfer data via the interface, e.g. to a printer. Other devices, e.g. a PC can also be connected. The data to be transferred can be freely defined.

6		Open/Close	For opening and closing the glass draft shield doors. For convenient right and left-handed operation, one of these keys is provided on both sides of the terminal.	
			Important The key can have different functions if a powder module or autosampler is installed.	
			If powder module and front door are defined as mounted, the key operates the front door.	
			If powder module is defined as mounted and front door is defined as unmounted, the key operates the side doors.	
			If autosampler and front door are defined as mounted, the key operates the front door.	
			If autosampler is defined as mounted and front door is defined as unmounted, the key turns the autosampler clockwise by 1 magazine = 5 positions.	
			Refer to your Powder Module Operating Instructions or Autosampler Operating Instructions for further information.	
7		StatusLight	Indicates the current balance status. The status light shows that the balance is ready to use.	
8	→0 ←	Zeroing	This key is used for setting a new zero point manually (only required if the balance is used for normal weighings).	
9	→T←	Tare	This key is used to tare the balance manually (only necessary for normal weighings). When the balance has been tared, the Net symbol is displayed to indicate that all displayed weights are net.	
10	(1)	On/Off	For switching the balance on and off (standby mode).	
			Important It is recommended not to disconnect the balance from the power supply unless it is not going to be used for an extended period.	
11	*	Open/Close	For opening and closing the glass draft shield doors. For convenient right and left-handed operation, one of these keys is provided on both sides of the terminal.	
			Important The key can have different functions if an autosampler is installed.	
			If the autosampler is defined as mounted, the key turns the autosampler on counterclockwise by 1 magazine = 5 positions.	
12	30	Settings for user profiles	For defining basic settings for each user profile. These settings apply to all user applications.	
13	2	User profile	This key is used to display a specific user profile. Different settings can be saved in a user profile. This allows the balance to be adjusted to a specific user or weighing task.	
14		Home	This key is used to return to the user profile Home from any menu level in any application.	

1 Safety Information

- Read and understand the instructions in this manual before you use the balance.
- Keep this manual for future reference.
- Include this manual if you pass on the balance to other parties.

If the balance is not used according to the instructions in this manual or if it is modified, the safety of the user may be impaired and Mettler-Toledo GmbH assumes no liability.

1.1 Definition of signal words and warning symbols

Safety notes are marked with signal words and warning symbols. These show safety issues and warnings. Ignoring the safety notes may lead to personal injury, damage to the instrument, malfunctions and false results.

Signal words

WARNING for a hazardous situation with medium risk, possibly resulting in death or severe

injury if not avoided.

CAUTION for a hazardous situation with low risk, resulting in minor or moderate injury if not

avoided.

NOTICE for a hazardous situation with low risk, resulting in damage to the instrument, other

material damage, malfunctions and erroneous results, or loss of data.

Note (no symbol)

for useful information about the product.

Warning symbols



General hazard



Electrical shock

1.2 Product specific safety notes

Your balance represents state-of-the-art technology and complies with all recognized safety rules, however, certain hazards may arise in extraneous circumstances. Do not open the housing of the balance; it does not contain any parts that can be maintained, repaired or replaced by the user. If you experience problems with your balance, contact your authorized METTLER TOLEDO dealer or service representative.

The balance has been tested for the experiments and intended purposes documented in the appropriate manual. However, this does not absolve you from the responsibility of performing your own tests of the products supplied by us regarding their suitability for the methods and purposes you intend to use them for.

Intended use

This balance is designed to be used in analytical laboratories by qualified staff. Your balance is used for weighing. Use the balance exclusively for this purpose.

Any other type of use and operation beyond the limits of technical specifications without written consent from Mettler-Toledo GmbH, is considered as not intended.

Site requirements

The balance has been developed for indoor operation in a well-ventilated area. Avoid the following environmental influences:

- · Conditions outside of the ambient conditions specified in the technical data
- · Powerful vibrations
- Direct sunlight
- Corrosive aas atmosphere
- Explosive atmosphere of gases, steam, fog, dust and flammable dust

· Powerful electric or magnetic fields

Staff qualification

Incorrect use of the balance or the chemicals used in the analysis can lead to death or injury. The following experience is needed for operating the balance.

- Knowledge and experience in working with toxic and caustic substances.
- Knowledge and experience in working with standard laboratory equipment.
- Knowledge and experience in working in accordance with general lab safety rules.

Responsibilities of the balance owner

The balance owner is the person that uses the balance for commercial use or places the balance at the disposal of his staff. The balance owner is responsible for product safety and the safety of staff, user(s) and third party.

The operator has the following responsibilities:

- Know the rules for safety at the workplace that are in effect and enforce them.
- Ensure that only qualified staff uses the balance.
- Define the responsibilities for installation, operation, cleaning, troubleshooting and maintenance and ensure that the tasks are done.
- Train the staff in regular intervals and inform them about dangers.
- · Provide the necessary protective gear for the staff.

Shut down of the balance in emergency situations

- Pull the plug from the electrical outlet.

Protective clothing

Wear protective clothing in the laboratory when working with hazardous or toxic substances.



Use appropriate gloves when handling chemicals or hazardous substances and check their integrity before use.



↑ WARNING

Danger of death or serious injury due to electric shock!

Contact with parts that contain a live current can lead to injury and death. If the balance cannot be shut down in an emergency situations, people can be injured or the balance can be damaged.

- 1 Only use the supplied three-core power cable with equipment grounding conductor to connect your balance.
- 2 Check that the voltage printed on it is the same as your local power supply voltage.
 - ⇒ If this is not the case, under no circumstances connect the AC adapter to the power supply, but contact a METTLER TOLEDO representative.
- 3 Only connect the balance to a three-pin power socket with earthing contact.
- 4 Only standardized extension cable with equipment grounding conductor must be used for operation of the balance.
- 5 Do not disconnection the equipment grounding conductor.
- 6 Check the cables and the plug for damage and replace damaged cables and plugs.
- 7 Make sure that the cables are arranged so that they cannot be damaged or interfere with the operation.
- 8 Keep all electrical cables and connections away from liquids.
- 9 Make sure that the power plug is accessible at all times.



NOTICE

Environment

Only use indoors in dry locations.



NOTICE

Danger of damaging the touch screen with pointed or sharp objects!

Do not use pointed or sharp objects to navigate on the touch screen. This may damage the surface of the touch screen.

- Operate the touch screen with your fingers.



NOTICE

Danger of damage to the balance!

Never open the balance. The balance contains no user-serviceable parts.

In the event of problems, please contact a METTLER TOLEDO representative.



NOTICE

Danger of damage to the balance due to incorrect parts!

Using incorrect parts with the balance can damage the balance or cause the balance to malfunction.

 Only use parts supplied with the balance, listed accessories and spare parts from Mettler-Toledo GmbH

Finding more information



Refers to an external document.

FCC Rules

This device complies with Industry Canada licence-exempt RSS standard(s) and part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

2 Design and Function

2.1 User interface

2.1.1 Display



NOTICE

Danger of damaging the touch screen with pointed or sharp objects!

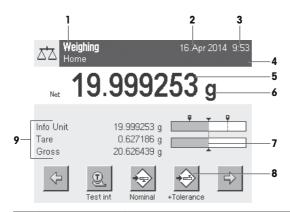
Do not use pointed or sharp objects to navigate on the touch screen. This may damage the surface of the touch screen.

Operate the touch screen with your fingers.

The illuminated, color display of the terminal is a touch screen, i.e. a touch-sensitive screen. It can be used for displaying data, entering settings and selecting functions by tapping the screen.

Important

Depending on country-specific requirements, non-calibrated decimal places are highlighted on approved balances.



	Designation	Explanation
1	Application name	Select application.
		The application menu can be selected by tapping this zone. This menu can also be displayed by pressing $[\exists]$.
	Current user profile	Displays the current user profile.
2	Date	The date can be changed by tapping this zone.
3	Time	The time can be changed by tapping this zone.
4	Status icons	These status icons indicate special balance statuses (e.g. service due, adjustment required, battery replacement, out of level).
		If you tap the icon, the function is explained.
5	Weight value	Tapping the weight displays a window showing the result in a large format. This is useful for reading a weight from a certain distance.
6	Weighing unit	The required weighing unit can be changed by tapping the weighing unit, e.g. from \mathbf{mg} to \mathbf{g} .
7	SmartTrac	SmartTrac is a graphic weighing-in aid, which shows at a glance an already used and still available weighing range.
8	Function keys	This area is reserved for Function Keys enabling direct access to frequently required functions and application settings. If more than 5 function keys are activated, these can be selected with the arrow keys.
9	Information fields	This area is used for displaying additional information (information fields) relating to an active application. Tapping the information field enables information fields and Function Keys to be displayed directly via menu selection. The leveling assistant can also be started.

Large display

By pressing the function key [**Display**], the weighing result can be displayed larger and still allow the use of the terminal function keys.



Screen saver

If the balance is not used for 15 minutes, the display is automatically dimmed and the pixels are inverted about every 15 seconds. When the balance is used again (e.g. load weight, press key), the display returns to a normal state.

2.1.2 Input dialog boxes

The keyboard dialog box is used to enter characters such as letters, numbers and special characters.



	Designation	Explanation	
1	Data field	Displays (entered) alphanumeric and numeric characters.	
2	Keyboard	Data input area	
3	Selection	Select various keyboard layouts.	

- 1 Enter the designation.
- 2 Confirm with [OK].

		Function
	←	Delete last character
		Tap once to place the cursor at the end of the data field.

2.1.3 Firmware

The firmware controls all balance functions. It enables the balance to be adjusted to a specific working environment.

The firmware is divided as follows:

- System settings
- User profiles
- User-specific settings

- Applications
- Application-specific settings

Note

A displayed menu can be left at any time by repressing the same menu key.

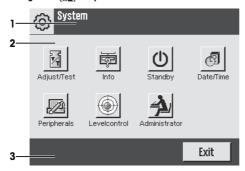
2.1.3.1 System settings

System settings (e.g. settings for peripheral devices) are independent of the user profiles and applications and apply to the entire weighing system. System settings can be displayed by pressing [4] or [Ha] and then the [System] button.

Navigation: [3] > System

or

Navigation: [🖫] > System



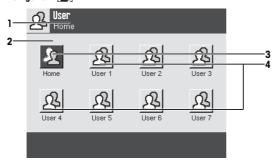
	Designation	Explanation	
1 Title bar The title bar displays elements for user orientation and information.			
2	Contents area	The contents area is the main work area for menus and applications. The contents depend on the specific application or initiated action.	
		The action bar contains action buttons for performing specific actions required in the active dialog box and are available (e.g. [Exit], [STD], [C], [OK]).	

- 1 Settings can be changed by tapping the respective button.
- 2 To leave the settings, tap [Exit].

2.1.3.2 User profiles

User profiles are used to adjust the balance to suit specific applications and personal work techniques or specific weighing tasks. A user profile is a collection of user defined settings that can be selected at the press of a button. The last active user profile is automatically loaded when the balance is switched on

Navigation: 🔼



	Designation	Explanation
1	Title bar	The title bar displays elements for user orientation and information.
2	Contents area	The contents area is the main work area for menus and applications. The contents depend on the specific application or initiated action.
3	Home	The Home profile is a starting point that can be returned to at any time by pressing the [1] key. It contains factory settings for all users. These settings can be changed as required. It is recommended not to change the Home profile factory settings, but make adjustments in further user profiles.
4	User profiles	Settings in further user profiles can be changed as required. All settings made in an active user profile are saved under this profile. This includes both application and user-specific settings. The system settings are not changed.

- A user profile can be changed by tapping the respective button.

2.1.3.3 User-specific settings

These settings can be used to adjust the balance to suit the tasks and work techniques of individual users. The settings can be defined separately for each user profile and for the **Home** profile. When a user profile is selected, the corresponding user-specific settings are automatically loaded.

Navigation: [30]



Applications

Applications are firmware modules for performing specific weighing tasks. The balance is delivered with various applications pre-installed. After switching on the balance, the last active user profile and last used application are loaded. The applications are available under the [Ha] key. Instructions for working with standard applications are provided in the respective sections.

Navigation: [#]



Application-specific settings

These settings can be used to adjust the applications to suit individual user requirements. The available setting options depend on the selected application. Pressing [\$\mathbb{C}_0\$] opens the multipage menu with settings for a currently active application. Information on the individual setting options is provided in the section relating to the respective application. Settings can be defined separately for each user profile and for the **Home** profile. When a user profile is selected, the corresponding application-specific settings are automatically loaded.

Navigation: [□]



	Designation	Explanation
1	Title bar	The title bar displays elements for user orientation and information.
2 Contents area The contents area is the main work area for menus and applications. The contents depend on the specific application or initiated action.		
3	Action bar	The action bar contains action buttons for performing specific actions required in the active dialog box and are available (e.g. [Exit], [STD], [C], [OK]).
4	Button	Edit/Select settings (e.g. [Define], [On], [Off]). The contents depend on the application.
5	Arrow	The arrow buttons are used to page forward or back.

- 1 Settings can be changed by tapping the respective button.
- 2 Confirm with [OK].
- 3 To leave the settings, select [Exit].
- 4 To change the system settings, tap [System].

2.1.4 Security system



NOTICE

Remember IDs and passwords!

Protected menu areas cannot be accessed without ID or password.

Note IDs and passwords and keep them in a safe place.

The balance has a comprehensive security system with which individual access rights can be defined at administrator and user level. Settings that may be changed can be defined for each individual user profile. Access to protected menu areas requires the entry of identification (ID) and a password. On delivery of the balance, only the [Administrator] settings in the system settings are protected.

When an ID and password protected menu area is selected, an alphanumeric keyboard is initially displayed for entry of the ID.

- 1 Enter your ID.
 - Case sensitive, tap the [a...z] and [A...z] button to switch between upper and lower case.
 - To enter numbers, tap the [0...9] button.
 - Incorrect entries can be deleted character by character with the arrow key (

Note

Entry can be interrupted at any time by tapping [C].

- 2 After entering the full ID, tap [OK].
 - ⇒ A further dialog box is displayed for entering the password.
- 3 Enter the password (for security reasons, this is displayed with asterisks instead of plain text) and confirm with [OK].
- ⇒ If the ID and password are correct, the selected menu area is displayed or the required action initiated. If these are incorrect, an error message is displayed with a request to enter them again.

3 Installation and Putting into Operation

Finding more information

www.mt.com/micro

3.1 Unpacking

Open the balance packaging. Check the balance for transport damage. Immediately inform a METTLER TOLEDO representative in the event of complaints or missing accessories.

Important

Retain all parts of the packaging. This packaging offers the best possible protection for transporting the balance.

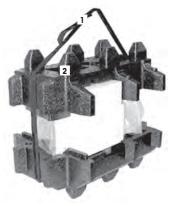
- 1 Open the outer packaging box.
- Remove it from the packaging the Unpacking and packing instructions.
- 3 Lift the cardboard box (1) out of the packaging.
- 4 Remove the operating instructions (2).



- 5 Remove the set (3) with AC adapter, power supply cable, tweezers, and the set containing ErgoClip basket micro and SmartGrid cover micro.
- 6 Remove the set with outer draft shield doors (4) and terminal support.



- Use the lifting strap to lift the balance out of the packaging box.
- 1 Remove the lifting strap (1).
- 2 Remove the top packaging (2).



3 Remove the set (3) with inner draft shield etc.



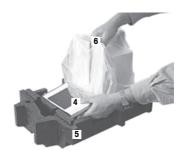
- 4 Carefully remove the terminal (6) from the bottom packaging.
- 5 Remove the protective cover.

Note

Since the terminal is connected to the balance with a cable, only withdraw the balance slightly from the packaging in order to remove the protective cover.



- 6 Place the terminal (4) at the front of the balance.
- 7 Hold the balance (6) by the guide or handle. Hold the terminal firmly with the other hand. Pull out both components together from the bottom packaging (5).
- 8 Place the balance with the terminal at the site of use.
- 9 Remove the cover from the balance.



3.2 Scope of delivery



NOTICE

Danger of damage to the balance due to incorrect parts!

Using incorrect parts with the balance can damage the balance or cause the balance to malfunction

 Only use parts supplied with the balance, listed accessories and spare parts from Mettler-Toledo GmbH.

Installation for all balance types is described in this chapter. Standard equipment for the various types of balances varies and also depends on the optional accessories. For this reason, installation steps may vary.

3.2.1 XPE56/XPE26

The standard scope of delivery contains the following items:

- Balance with terminal
 - RS232C interface
 - Slot for second interface (optional)
 - Feedthroughs for below-the-balance weighing and for antitheft device
- · Set with outer draft shield and terminal support
- Set with inner draft shield, drip tray and SmartGrid micro
- · Set with:
 - Ergo Clip basket micro with support
 - SmartGrid cover micro (attachment for SmartGrid)
- Protective cover for the terminal
- AC adapter with country-specific power cable
- Tweezers
- · Cleaning brush
- · Production certificate
- · CE declaration of conformity
- · Operating instructions or User Manual; printed or on CD-ROM, depending on country of use

3.2.2 XPE56Q

The standard scope of delivery contains the following items:

- · Balance with terminal
 - RS232C interface
 - Slot for second interface (optional)

- Feedthroughs for below-the-balance weighing and for antitheft device
- 2 side doors and terminal support
- Set with:
 - Ergo Clip basket micro with support
 - SmartGrid cover micro (attachment for SmartGrid)
- Protective cover for the terminal
- AC adapter with country-specific power cable
- Tweezers
- Cleaning brush
- Production certificate
- CE declaration of conformity
- · Operating instructions or User Manual; printed or on CD-ROM, depending on country of use

3.3 Selecting the location

An optimal location will ensure accurate and reliable operation of the balance. The surface must be able to safely take the weight of the balance when fully loaded. The following local conditions must be observed:

Important

If the balance is not horizontal at the outset, it must be leveled during commissioning.

- The balance must only be used indoors and up to a maximum altitude of 4,000 m above sea level.
- Before switching on the balance, wait until all parts are at room temperature (+5 to 40 °C).
 The humidity must be between 10% and 80% noncondensing.
- The power plug must be accessible at all times.
- · Firm, horizontal and vibration-free location.
- · Avoid direct sunlight.
- No excessive temperature fluctuations.
- No strong drafts.









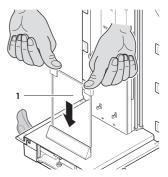
Further information can by found in Weighing the Right Way.

3.4 Assembling the balance

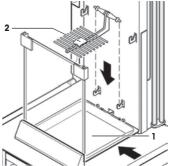
3.4.1 XPE56/26

3.4.1.1 Inner draft shield

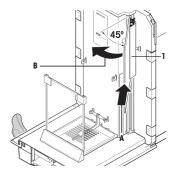
- 1 Insert the front glass (1) of the inner draft shield.
- 2 Ensure the glass is centered and pushed in as far as the stop.



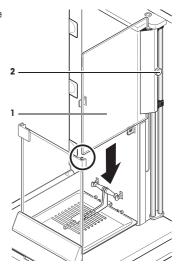
- 3 Insert the drip tray (1) from the side under the upper 2 pins. The notches must be positioned by the springs.
- 4 Insert the SmartGrid (2) from above.
- 5 Check that the SmartGrid is correctly hooked in on both sides.



- 1 Insert the side window (1) of the inner draft shield. At an angle of approximately 45 degrees to the final position, place the 2 black clips on the back guide shaft.
- 2 Push the window up until you can swivel it in over the front glass.



- 3 Insert the window (1) of the inner draft shield into the guide of the front glass and lower it to the floor.
- 4 The window must run easily.
- 5 Press the coupling pins (2) toward the inside.
- 6 Now insert the window on the other side of the inner draft shield. The procedure is the same.



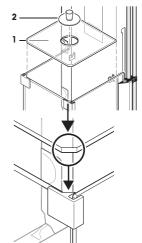
- 1 Put the top glass (1) on.
- 2 Insert the sealing cover (2).

Important

The sealing cover closes the opening in the top glass through which you can pipette into a high container.

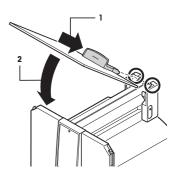
NOTICE

Do not use the sealing cover to lift the top glass of the draft shield!

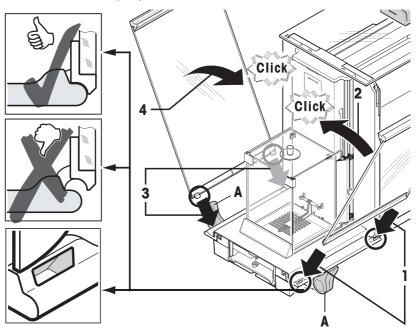


3.4.1.2 Outer draft shield

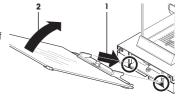
- Insert the top draft shield door (1) at an angle (slightly below 30 degrees) into the rear guide.
- 2 Carefully fold the draft shield door (2) downwards, see figure.



- The handles (A) must be turned toward the outside to allow installation of the side draft shield doors!
- 1 Insert the side doors of the draft shield according to the following instructions, see figure below.
- 2 Insert the side door at an angle of approx. 30° into the 2 openings, see figure.
- 3 Check that the side door is correctly inserted as shown!
- 4 Swivel the side door up against the balance until it engages with a click.
- 5 The side door must run easily, otherwise it is not correctly inserted.
- 6 Insert the second side door of the draft shield.
 - ⇒ The procedure is identical.
- 7 Push the side doors completely to the back.



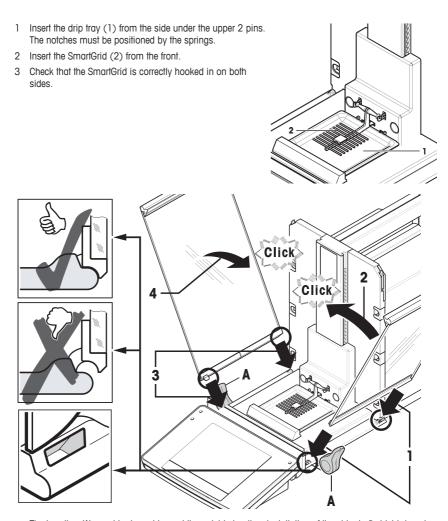
- 1 Insert the front glass (2) of the draft shield.
- 2 In the bottom part of the balance at the front, move at an angle from the top toward the bottom until the two hooks of the front glass of the draft shield lie on the rollers (1).
- 3 Swivel the front glass of the draft shield up until it engages.



3.4.2 XPE56Q

Note

Refer to the corresponding manual to install dosing modules.



- The handles (A) must be turned toward the outside to allow installation of the side draft shield doors!
- 1 Insert the side doors of the draft shield according to the following instructions, **see** figure below.
- 2 Insert the side door at an angle of approx. 30° into the 2 openings, see figure.
- 3 Check that the side door is correctly inserted as shown!
- 4 Swivel the side door up against the balance until it engages with a click.
- 5 The side door must run easily, otherwise it is not correctly inserted.
- 6 Insert the second side door of the draft shield.
 - ⇒ The procedure is identical.
- 7 Push the side doors completely to the back.

3.4.3 Assembling the terminal

- 1 Insert the terminal support.
- 2 Place the cable in the guide of the terminal support.
- 3 Insert the terminal support into the opening in the front draft shield glass.
 - ⇒ The terminal support must engage with a click.



- 1 Mount the terminal.
- 2 Place the terminal in the center of the support.
- 3 Push the terminal against the balance until it folds down easily at the front of the terminal support.
- 4 Insert the cable into the balance.





NOTICE

Danger of damage to the terminal!

The balance and terminal are not connected by the terminal support!

Always hold the balance and terminal firmly during transport.

Note

The Terminal cable is of sufficient length to allow repositioning of the terminal in the area around the balance.

3.5 Connecting the balance



⚠ WARNING

Danger of death or serious injury due to electric shock!

Contact with parts that contain a live current can lead to injury and death. If the balance cannot be shut down in an emergency situations, people can be injured or the balance can be damaged.

- Only use the supplied three-core power cable with equipment grounding conductor to connect your balance.
- 2 Check that the voltage printed on it is the same as your local power supply voltage.
 - ⇒ If this is not the case, under no circumstances connect the AC adapter to the power supply, but contact a METTLER TOLEDO representative.
- 3 Only connect the balance to a three-pin power socket with earthing contact.
- 4 Only standardized extension cable with equipment grounding conductor must be used for operation of the balance.
- 5 Do not disconnection the equipment grounding conductor.
- 6 Check the cables and the plug for damage and replace damaged cables and plugs.
- 7 Make sure that the cables are arranged so that they cannot be damaged or interfere with the operation.
- 8 Keep all electrical cables and connections away from liquids.
- 9 Make sure that the power plug is accessible at all times.

NOTICE

Danger of damage to the AC adapter due to overheating!

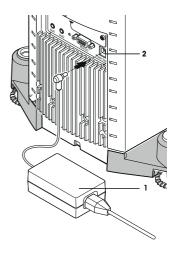
If the AC adapter is covered or in a container, it is not sufficiently cooled and overheats.

- Do not cover the AC adapter.
- 2 Do not put the AC adapter in a container.

The balance is supplied with an AC/DC adapter and a country-specific power cable. The AC/DC adapter is suitable for use with the following voltage range:

100 - 240 V AC, 50/60 Hz.

- Balance and terminal are at the final location.
- 1 Connect the AC adapter (1) to the connection socket (2) at the rear of the balance.
- 2 Connect the AC adapter (1) to a grounded electrical outlet.
- ⇒ The balance performs a self-test after connection to the power supply and is then ready to use.



3.6 Setting up the balance

Switching on the balance

- Balance is connected to the power supply.
- Terminal and balance are interconnected.
- To switch on, press (也).
 - ⇒ Display appears.
- ⇒ Balance is ready to use.

Leveling the balance

The balance has a built-in level sensor which permanently monitors correct horizontal alignment.

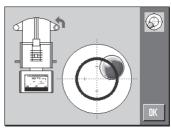
If the balance is not exactly level, a warning text is generated after switching on the balance with the request to level the balance.

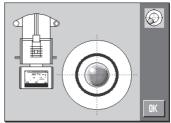
If the level sensor detects incorrect leveling, the status light at the terminal shows red. A warning text is displayed and an audible warning generated. A status icon also appears in the top right corner of the display.





- To start the leveling assistant, tap [LevelGuide] in the warning message.
 - ⇒ Window with level indicator is displayed in real-time.
- 2 Observe the level indicator on the screen.
 - ⇒ The air bubble in the level indicator shows red with incorrect alignment.
 - The leveling assistant indicates with red arrows the direction in which the two foot screws at the rear of the balance must be turned.
- 3 Turn the foot screw until the air bubble is located in the inner circle of the level indicator.
 - The air bubble in the level indicator shows green with correct alianment.
 - ⇒ The status light at the terminal shows green.
- 4 Tap [**OK**].
 - A message recommending adjustment of the balance is displayed.
- 5 Tap [Adjust.int] to adjust the balance.





3.6.1 Operating of the draft shield(s)

3.6.1.1 XPE56/XPE26

Outer draft shield

The outer draft shield of the balance can be adjusted to the ambient conditions, weighing method and material to be weighed.

The outer draft shield doors can be opened and closed by pressing $[\cline{4}]$, with the "SmartSens" sensors or manually .

Try different combinations by moving the handles upwards/inwards and downwards/outwards. We recommend aligning the glass draff shield so that only those parts are opened that are required for loading. The balance then operates faster due to less disturbing air flows than with a fully open draff shield.

Note

It is recommended to make connections when the draft shield is closed.

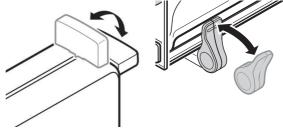
Motorized operation

The automatic door function opens and closes the doors of the glass draft shield automatically when required.

Example

- Doors open automatically for loading the tare weight when [→T←] is pressed.
- When a request is made to load the adjustment weight while adjusting the balance, the doors
 open automatically. The doors close automatically when the weight is loaded.
- The draft shield closes automatically for all weighings to achieve a stable weight indication.
- For different operations (e.g. piece counting), the doors open and close automatically as required by the application.

- Handles are locked.
- Move the handles for the side doors inwards.
- 2 Move the handle for the top door into the horizontal position.
- The door is automatically opened when required.



Manual door operation

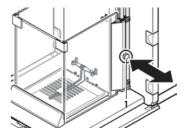
The doors must be opened or closed manually. With the [] keys, via SmartSens or manually.

- Handles are unlocked.
- 1 Move the handles for the side doors outwards.
- 2 Move the handle for the top door into the vertical position.
- 3 Press [or 1.]. or Move the hand over the SmartSens sensor.
- ⇒ The door is opened.

Inner draft shield

- For motorized operation of the inner draft shield the coupling bolts (1) must be pressed inward.
 - ⇒ The two side doors can be controlled separately.

You can also open the side doors of the inner draft shield only partway, with a choice of 25%, 50% or 75%.



3.6.1.2 XPE56Q

The draft shield of the balance can be adjusted to the ambient conditions, weighing method and material to be weighed.

The draft shield doors can be opened and closed by pressing $[\mathbb{Z}_*]$, with the "SmartSens" sensors or manually .

Try different combinations by moving the handles upwards/inwards. We recommend aligning the glass draft shield so that only those parts are opened that are required for loading. The balance then operates faster due to less disturbing air flows than with a fully open draft shield.

Note

It is recommended to make connections when the draft shield is closed.

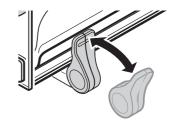
Motorized operation

The automatic door function opens and closes the doors of the glass draft shield automatically when required.

Example

- Doors open automatically for loading the tare weight when [→T←] is pressed.
- When a request is made to load the adjustment weight while adjusting the balance, the doors
 open automatically. The doors close automatically when the weight is loaded.
- The draft shield closes automatically for all weighings to achieve a stable weight indication.

- Handles are locked.
- Move the handles for the side doors inwards.
- ⇒ The door is automatically opened when required.



Manual door operation

The doors must be opened or closed manually. With the [] key, via SmartSens or manually.

- Handles are unlocked.
- 1 Move the handles for the side doors outwards.
- 2 Press [].

or

Move the hand over the SmartSens sensor.

⇒ The door is opened.

3.6.2 Performing a simple weighing

After commissioning of the new balance, the first weighing can be performed.

To perform a simple weighing, only the keys in the lower part of the terminal are required. The balance has separate keys for zeroing $[\rightarrow 0\leftarrow]$ and taring $[\rightarrow 7\leftarrow]$.

Zeroing

- Press [→0←].

After zeroing, all weights also the tare weight apply to this new zero point and the following apply: tare weight = 0, net weight = gross weight = 0.

Tarina

Important

A negative weight is not permitted. An error message is generated. When the stability detector icon extinguishes (small ring left of the weight display), the indication is stable. The weight is displayed.

- If a weighing container is used, the balance must first be set to zero.
- Place the container on the balance
- 2 Press [**→T**←].
 - ⇒ The balance is tared.
- The weight of the container is set as the new tare weight and the previous tare (if available) is overwritten.
- The Net display signals that all indicated weights are net weights.



4 Maintenance

4.1 Cleaning

Periodically clean the weighing pan, the drip tray, the housing, and the terminal of your balance using the brush supplied with it. The maintenance interval depends on your standard operating procedure (SOP).

Please observe the following notes:

4

♠ WARNING

Danger of death or serious injury due to electric shock!

Contact with parts that contain a live current can lead to injury and death. If the balance cannot be shut down in an emergency situations, people can be injured or the balance can be damaged.

- 1 Disconnect the balance from the power supply prior to cleaning and maintenance.
- 2 Only use METTLER TOLEDO power cable, if these need to be replaced.
- 3 Make sure that no liquid enters into the balance, terminal or AC adapter.
- 4 Do not open the balance, terminal or AC adapter. These contain no user-serviceable parts.



NOTICE

Danger of damage to the balance due to inappropriate cleaning methods!

The balance is made from high quality, resistant materials and can be damaged by certain cleaning agents, solvents or abrasives. If liquids enter the housing they can damage the balance.

- 1 Use only water and a mild detergent to clean the balance or terminal.
- 2 Wipe off any spills immediately.
- 3 Make sure that no liquid enters the interior of the balance.

Cleaning

Your balance is made from high quality, resistant materials and can therefore be cleaned with a commercially available, mild cleaning agent.

Important

All removable non-coated parts of the outer draft shield are dishwasher safe to 80 degrees. The sealing cover of the inner draft shield is **not** dishwasher safe.

- 1 To clean the weighing chamber thoroughly, move the draft shield glass panels (including intermediate shelf) away from the balance and remove them from their fastenings.
- 2 Carefully lift the front of the weighing pan and lift it out of the guide.
- 3 Remove the drip tray from the balance.
- 4 Ensure that these parts are correctly positioned when refitted.

Important

Contact a METTLER TOLEDO representative to find about the service options available – regular maintenance by an authorized service engineer will ensure consistent weighing accuracy over the long term and extend the service life of the balance

4.2 Disposal

In conformance with the European Directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE) this device may not be disposed of in domestic waste. This also applies to countries outside the EU, per their specific requirements.

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment. If you have any questions, please contact the responsible authority or the distributor from which you purchased this device. Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.



Thank you for your contribution to environmental protection.

5 Technical Data

5.1 General data



⚠ WARNING

Danger of death or serious injury due to electric shock!

Contact with parts that contain a live current can lead to injury and death.

Only use an approved AC adapter with a current-limited SELV output.

2 Ensure correct polarity ⊕ ⊕ ⊕

Power supply

AC adapter: Primary: 100 – 240 V AC, -15%/+10%, 50/60 Hz

Secondary: 12 V DC ±3%, 2.5 A (with electronic overload

protection)

Cable for AC adapter: 3-core, with country-specific plug

Balance power supply: $12 \text{ V DC} \pm 3\%$, 2.25 A, maximum ripple: 80 mVpp

Protection and standards

Overvoltage category: II
Degree of pollution: 2

Protection: Protected against dust and water
Standards for safety and EMC: See Declaration of Conformity
Range of application: For use only in closed interior rooms

Environmental conditions

Height above mean sea level: Up to 4000 m

Ambient temperature: 5–40 °C

Relative air humidity: Max. 80% up to 31 °C, linearly decreasing to 50% at 40 °C,

noncondensing

Warm-up time: At least 120 minutes after connecting the balance to the power

supply; when switched on from standby-mode, the balance is

ready for operation immediately

Materials

Housing: Die-cast aluminum, plastic, chrome steel and glass

Terminal: Die-cast zinc, chromed and plastics

SmartGrid: Chrome-Nickel-Molybdenum steel X2CrNiMo17



Good Weighing Practice™

 $\mathsf{GWP}^{\text{\tiny{(0)}}}$ is the global weighing standard, ensuring consistent accuracy of weighing processes, applicable to all equipment from any manufacturer It helps to:

- Choose the appropriate balance or scale
- Calibrate and operate your weighing equipment with security
- Comply with quality and compliance standards in laboratory and manufacturing

www.mt.com/GWP

www.mt.com/micro	WWW.	mt.	com/	m	icro
------------------	------	-----	------	---	------

For more information

Mettler-Toledo GmbH

Im Langacher 44 8606 Greifensee, Switzerland www.mt.com/contact

Subject to technical changes.
© Mettler-Toledo GmbH 11/2016
30134797D en

