This User Manual is a brief instruction that provides information to handle with the first steps of the instrument in a safe and efficient manner. Personnel must have carefully read and understood this manual before performing any tasks.

For full information, always refer to the Reference Manual (RM).

<table>
<thead>
<tr>
<th></th>
<th>Overview balance</th>
</tr>
</thead>
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<tr>
<td>1</td>
<td>Terminal</td>
</tr>
<tr>
<td>2</td>
<td>Front panel inner draft shield</td>
</tr>
<tr>
<td>3</td>
<td>Top panel inner draft shield</td>
</tr>
<tr>
<td>4</td>
<td>Front panel draft shield</td>
</tr>
<tr>
<td>5</td>
<td>Top door draft shield</td>
</tr>
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<td>6</td>
<td>Handle for top door</td>
</tr>
<tr>
<td>7</td>
<td>Side door draft shield (left/right)</td>
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<td>8</td>
<td>Cooling unit</td>
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<td>9</td>
<td>Balance type designation plate</td>
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<td>10</td>
<td>Optical sensor SmartSens</td>
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<td>11</td>
<td>Side door inner draft shield (left/right)</td>
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<td>12</td>
<td>Weighing pan (Balances)</td>
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<td></td>
<td>Hanging Weighing pan (Comparators)</td>
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<td>13</td>
<td>Drip tray</td>
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<td>14</td>
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<td>Side door release lever</td>
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<td>17</td>
<td>Status light</td>
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<td>Ethernet port</td>
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<td>19</td>
<td>USB-A ports (to device)</td>
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<td>Service seal</td>
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<tr>
<td>21</td>
<td>Socket for terminal connection cable</td>
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<tr>
<td>22</td>
<td>USB-B port (to host)</td>
</tr>
<tr>
<td>23</td>
<td>Socket for power adapter</td>
</tr>
</tbody>
</table>
Overview terminal

<table>
<thead>
<tr>
<th>ON/OFF</th>
<th>Tare</th>
<th>Zero</th>
<th>Home</th>
<th>Open/close door</th>
</tr>
</thead>
<tbody>
<tr>
<td>ON/OFF</td>
<td>Tare</td>
<td>Zero</td>
<td>Home</td>
<td>Open/close door</td>
</tr>
</tbody>
</table>

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1 Introduction

**EULA**

The software in this product is licensed under the METTLER TOLEDO End User License Agreement (EULA) for Software. When using this product you agree to the terms of the EULA.  

[www.mt.com/EULA](http://www.mt.com/EULA)

1.1 Further documents and information

This document is available in other languages online.

[www.mt.com/xpr-analytical](http://www.mt.com/xpr-analytical)

Search for software downloads [www.mt.com/labweighing-software-download](http://www.mt.com/labweighing-software-download)

Search for documents [www.mt.com/library](http://www.mt.com/library)

For further questions, please contact your authorized METTLER TOLEDO dealer or service representative.

[www.mt.com/contact](http://www.mt.com/contact)

1.2 Acronyms and abbreviations

<table>
<thead>
<tr>
<th>Original term</th>
<th>Explanation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ASTM</td>
<td>American Society for Testing and Materials</td>
</tr>
<tr>
<td>EMC</td>
<td>Electromagnetic Compatibility</td>
</tr>
<tr>
<td>FCC</td>
<td>Federal Communications Commission</td>
</tr>
<tr>
<td>GWP</td>
<td>Good Weighing Practice</td>
</tr>
<tr>
<td>ID</td>
<td>Identification</td>
</tr>
<tr>
<td>LPS</td>
<td>Limited Power Source</td>
</tr>
<tr>
<td>MT-SICS</td>
<td>METTLER TOLEDO Standard Interface Command Set</td>
</tr>
<tr>
<td>NA</td>
<td>Not Applicable</td>
</tr>
<tr>
<td>OIML</td>
<td>Organisation Internationale de Métrologie Légale (International Organization of Legal Metrology)</td>
</tr>
<tr>
<td>RFID</td>
<td>Radio-frequency identification</td>
</tr>
<tr>
<td>RM</td>
<td>Reference Manual</td>
</tr>
<tr>
<td>RS (RS232C)</td>
<td>Recommended Standard (RS232C)</td>
</tr>
<tr>
<td>sd</td>
<td>Standard deviation</td>
</tr>
<tr>
<td>SELV</td>
<td>Safety Extra Low Voltage</td>
</tr>
<tr>
<td>SOP</td>
<td>Standard Operating Procedure</td>
</tr>
<tr>
<td>UM</td>
<td>User Manual</td>
</tr>
<tr>
<td>USB</td>
<td>Universal Serial Bus</td>
</tr>
<tr>
<td>USP</td>
<td>United States Pharmacopeia</td>
</tr>
</tbody>
</table>

1.3 Compliance information

National approval documents, e.g., the FCC Supplier Declaration of Conformity, are available online and/or included in the packaging.

[http://www.mt.com/ComplianceSearch](http://www.mt.com/ComplianceSearch)

For further information, consult the Reference Manual (RM).

2 Safety Information

Two documents named "User Manual" and "Reference Manual" are available for this instrument.

- The User Manual is printed and delivered with the instrument.
- Keep both documents for future reference.
- Include both documents if you transfer the instrument to other parties.

Only use the instrument according to the User Manual and the Reference Manual. If you do not use the instrument according to these documents or if the instrument is modified, the safety of the instrument may be impaired and Mettler-Toledo GmbH assumes no liability.

2.1 Definitions of signal words and warning symbols

Safety notes contain important information on safety issues. Ignoring the safety notes may lead to personal injury, damage to the instrument, malfunctions and false results. Safety notes are marked with the following signal words and warning symbols:

**Signal words**

**DANGER**
A hazardous situation with high risk, resulting in death or severe injury if not avoided.

**WARNING**
A hazardous situation with medium risk, possibly resulting in death or severe injury if not avoided.

**CAUTION**
A hazardous situation with low risk, resulting in minor or moderate injury if not avoided.

**NOTICE**
A hazardous situation with low risk, resulting in damage to the instrument, other material damage, malfunctions and erroneous results, or loss of data.

**Warning symbols**

General hazard: read the User Manual or the Reference Manual for information about the hazards and the resulting measures.

Electrical shock

Notice

2.2 Product-specific safety information

**Intended use**
This instrument is designed to be used by trained staff. The instrument is intended for weighing purposes. Any other type of use and operation beyond the limits of use stated by Mettler-Toledo GmbH without consent from Mettler-Toledo GmbH is considered as not intended.

**Responsibilities of the instrument owner**

The instrument owner is the person holding the legal title to the instrument and who uses the instrument or authorizes any person to use it, or the person who is deemed by law to be the operator of the instrument. The instrument owner is responsible for the safety of all users of the instrument and third parties.

Mettler TOLEDO assumes that the instrument owner trains users to safely use the instrument in their workplace and deal with potential hazards. METTLER TOLEDO assumes that the instrument owner provides the necessary protective gear.
Safety notes

**WARNING**

Death or serious injury due to electric shock
Contact with parts that carry a live current can lead to death or injury.
1. Only use the METTLER TOLEDO power supply cable and AC adapter designed for your instrument.
2. Connect the power cable to a grounded power outlet.
3. Keep all electrical cables and connections away from liquids and moisture.
4. Check the cables and the power plug for damage and replace damaged cables and power plugs.

**NOTICE**

Damage to the instrument due to the use of unsuitable parts
Using unsuitable parts with the instrument can damage the instrument or cause it to malfunction.
- Only use parts from METTLER TOLEDO that are intended to be used with your instrument.

A list of spare parts and accessories can be found in the Reference Manual.

3 Design and Functions

For further information, consult the Reference Manual (RM).

3.1 Overview

See the sections "Overview" (graphics and legend) at the very beginning of this manual.
3.2 User interface

3.2.1 Main sections at a glance

The main weighing screen (1) is the central navigation point where all the menus and settings can be found. The Balance menu (2), Methods (3) and Protocol (4) open when tapping the drawers along the sides of the main weighing screen.

See also
Main weighing screen ➔ Page 6

3.2.2 Main weighing screen

<table>
<thead>
<tr>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>User name</td>
</tr>
<tr>
<td></td>
<td>Shows the name of the current user.</td>
</tr>
<tr>
<td>2</td>
<td>Weighing value field</td>
</tr>
<tr>
<td></td>
<td>Shows the current weighing value.</td>
</tr>
<tr>
<td>3</td>
<td>Methods</td>
</tr>
<tr>
<td>4</td>
<td>Protocol</td>
</tr>
<tr>
<td>5</td>
<td>Info</td>
</tr>
<tr>
<td>6</td>
<td>Weight</td>
</tr>
<tr>
<td>7</td>
<td>Administrator</td>
</tr>
<tr>
<td>8</td>
<td>Sample ID</td>
</tr>
<tr>
<td>9</td>
<td>Task ID</td>
</tr>
<tr>
<td>10</td>
<td>Cancel task</td>
</tr>
<tr>
<td>11</td>
<td>Edit</td>
</tr>
<tr>
<td>12</td>
<td>Complete</td>
</tr>
<tr>
<td>13</td>
<td>More</td>
</tr>
<tr>
<td>14</td>
<td>Add to protocol</td>
</tr>
<tr>
<td>15</td>
<td>Name</td>
</tr>
<tr>
<td>16</td>
<td>Description</td>
</tr>
<tr>
<td>17</td>
<td>Shows the name of the current user.</td>
</tr>
<tr>
<td>Name</td>
<td>Description</td>
</tr>
<tr>
<td>------</td>
<td>-------------</td>
</tr>
<tr>
<td>3</td>
<td>Level indicator</td>
</tr>
<tr>
<td>4</td>
<td>Methods menu</td>
</tr>
<tr>
<td>5</td>
<td>Info weight</td>
</tr>
<tr>
<td>6</td>
<td>Warning and error message area</td>
</tr>
<tr>
<td>7</td>
<td>Drawer Protocol</td>
</tr>
</tbody>
</table>
| 8 | Sample status OK | Result status indicator green: indicates that the result fulfills a set of criteria. For example:  
• The balance is in level.  
• The internal adjustment was performed and ok.  
• The weighing result is within the defined tolerance range (only if tolerance is defined). |
| 9 | Sample status Excluded | Result status indicator black: indicates that the result was excluded from the protocol. |
| 10 | Sample status Not OK | Result status indicator red: indicates that the result criteria are not fulfilled, e.g., "The weighing result was out of the defined tolerances". |
| 11 | Button Add to protocol | Adds the result to the protocol. Depending on the selected method, the button can have different functions. |
| 12 | Weighing action field | Contains actions referring to the current task. |
| 13 | Balance menu | Accesses the balance properties. |
| 14 | Method information area | Contains information about the sample, method or task IDs. |
| 15 | SmartTrac | Used as a weighing aid to define a target weight with upper and lower tolerances. |
| 16 | Weighing value area | Shows the results of the current weighing process. |
| 17 | Method name | Shows the name of the current method. |

### 4 Installation and Putting into Operation

#### 4.1 Selecting the location

A balance is a sensitive precision instrument. The location where it is placed will have a profound effect on the accuracy of the weighing results.

**Requirements of the location**

- Place indoors on stable table
- Ensure sufficient spacing
- Level the instrument
- Provide adequate lighting
Avoid direct sunlight
Avoid vibrations
Avoid strong drafts
Avoid temperature fluctuations

Sufficient spacing for balances: > 15 cm all around the instrument
Take into account the environmental conditions. See "Technical Data".

4.2 Unpacking the balance
Check the package, the packaging elements and the delivered components for damages. If any components are damaged, please contact your METTLER TOLEDO service representative.
Depending on the balance model, the components may look different. The procedure is always the same.
1. Open the box and lift the package out using the lifting strap (1).

2. Open the lifting strap (1) and remove the User Manual (2).

3. Remove the upper part of the package and remove the set with the AC adapter and power cable (3), the box containing several accessories (4), and the weighing pan (5).
4 Carefully remove the terminal (6).

5 Carefully remove the package set with the draft shield doors and the display holder (7).

6 Carefully remove the weighing unit (8) from the bottom packaging.
7 Remove the protective bag.
8 Store all parts of packaging in a safe place for future use.
⇒ The weighing unit is ready for assembling.

4.3 Scope of delivery

Balance
• Weighing unit
• Draft shield and inner draft shield
• Closure inner draft shield
• Drip tray and weighing pan

• Terminal with terminal holder and terminal connection cable
• AC/DC adapter with country-specific power cable
• MCLink Software (only comparators)

Documentation
• User Manual
• Production certificate

• Declaration of Conformity

Accessories
• ErgoClip basket micro
• ErgoClip SmartPrep
• SmartPrep, 2 pcs

• Hanging weighing pan (only comparators)
• Brush

4.4 Installation

4.4.1 Attaching the terminal

NOTICE
Damage to the cables due to careless handling
– Do not kink or twist the cables.
1 Insert the slides of the display holder (1) into the front of the weighing unit (2).

2 Connect the terminal cable (3) with the terminal (4). Consider the pin assignment.

3 Place the terminal (5) onto the display holder (6).

4 Carefully tilt the balance to its side.
5 Lead the cable (7) through the cable channel (8).
6 Carefully put the balance back on its feet.

7 Insert the terminal cable (9) into the socket of the balance (10). Consider the pin assignment.
⇒ The terminal is ready.
4.4.2 Assembling the balance

⚠️ CAUTION

Injury due to sharp objects or broken glass
Instrument components, e.g., glass, can break and lead to injuries.
- Always proceed with focus and care.

4.4.2.1 Assembling the inner draft shield and weighing pan

Assembling the balances and comparators is only different when installing the weighing pan. Please consider the note in the following procedure.

1. Place the front panel (1) on the pins (2) and push it down.
2. Insert the drip tray (3) behind the front panel.

3. Only for balances:
   Carefully mount the weighing pan (4): tilt it upwards, hang it on the hooks (5) and put it back straight.
   - The lower nose of the weighing pan slides under the pin (6).
4 **Only for comparators:**
Carefully hang the supporting rod (7) on the hooks (8).
⇒ The bottom part of the supporting rod leans against the pin (6).

5 **Only for comparators:**
Carefully place the hanging weighing pan (9) onto the supporting rod (7).

6 **For balances and comparators:**
Snap both side doors of the inner draft shield onto the bars (10).
7 Slide the doors to their uppermost position.
⇒ The pins (11) in the middle of the doors are at the height of the openings.
8 Turn the doors (12) 90° and slide them down into the guides of the front panel (13).

9 Carefully place the top panel (14) onto the weighing chamber.
10 Carefully place the closure (15) into the opening of the top panel.

4.4.2.2 Assembling the outer draft shield

1 Place the side doors (1) into the grooves of the door slides (2) and tilt them up until they engage with the door lever (3). Consider the marks on the bottom frames (L = left / R = right).
2 Insert the front panel (4) into the grooves (5) and tilt it up until it engages.
3 Open the side doors.

4 Fit the top door (6) along the top frame of the side doors and into the rails of the back wall (7).
5 Push the top door (6) towards the front.
6 Close the side doors.
   ⇨ The balance is assembled and ready to be put into operation.

4.5 Putting into operation
4.5.1 Connecting the balance

**WARNING**

**Death or serious injury due to electric shock**
Contact with parts that carry a live current can lead to death or injury.
1 Only use the METTLER TOLEDO power supply cable and AC adapter designed for your instrument.
2 Connect the power cable to a grounded power outlet.
3 Keep all electrical cables and connections away from liquids and moisture.
4 Check the cables and the power plug for damage and replace damaged cables and power plugs.

1 Install the cables in such a way that they cannot be damaged or interfere with operation.
2 Insert the plug of the AC/DC adapter (1) in the power inlet of the instrument.
3 Secure the plug by firmly tightening the knurled nut.
4 Insert the plug of the power cable into a grounded power outlet that is easily accessible.
   ⇨ After connecting the balance to power, the side doors open and close slowly for initialization.
Note
Do not connect the instrument to a power outlet controlled by a switch. After switching on the instrument, it must warm up before giving accurate results.

4.5.2 Switching on the balance

EULA (End User License Agreement)
When the balance is switched on the first time, the EULA (End User License Agreement) appears on the screen.
1. Read the conditions.
2. Tap I accept the terms in the license agreement. and confirm with OK.

Warming up
Before the balance gives reliable results, it must warm up. This takes at least 120 minutes after connecting the balance. When the balance is switched on from standby, it is ready immediately.
- The balance has warmed up.
- Press .
- The main weighing screen appears.

When the balance is switched on, the main weighing screen appears. The display will always show the screen of the method last used before switching it off.

4.5.3 Leveling the balance

Exact horizontal and stable positioning are essential for repeatable and accurate weighing results.
If the message Balance is out of level appears:
1. Tap Level the balance.
   - The Leveling aid opens.
2. Turn both leveling feet (1) as instructed on the display until the dot is in the center of the level indicator

The leveling aid can also be accessed through the balance menu:
Navigation: > Balance menu > Leveling aid

4.5.4 Performing an internal adjustment

- The adjustment Strategy is set to Internal adjustment.
1. Open the Methods section, tap , select the adjustment, and tap Start
   - or -
   from the main weighing screen, tap More and tap Start adjustment.
   - Internal adjustment is being executed.
   - When the adjustment has been completed, an overview of the adjustment results appears.
2. Tap Print if you want to print the results.
3. Tap Finish adjustment.
   - The balance is ready.

For further information, consult the Reference Manual (RM).

For further information, consult the Reference Manual (RM).
4.6 Performing a simple weighing

4.6.1 Opening and closing the draft shield doors

- Open the door manually with the door handle (1) or touch the key on the terminal (2).

The doors can be configured to open and close in different ways.

4.6.2 Taring the balance

If a sample vessel is used, the balance must be tared.

1. Open the draft shield.
2. Clear the weighing pan.
3. Close the draft shield.
4. Press to zero the balance.
5. Open the draft shield.
6. Place the sample vessel (1) on the weighing pan (2).
7. Close the draft shield.
8. Press to tare the balance.

The balance is tared. The icon appears.

4.6.3 Zeroing the balance

1. Open the draft shield.
2. Clear the weighing pan.
3. Close the draft shield.
4. Press to zero the balance.

The balance is zeroed.

4.6.4 Performing a weighing

1. Open the draft shield.
2. Place the weighing object into the sample vessel.
3. Close the draft shield.
4. Tap Add to protocol if you want to report the weighing result.

The weight value is listed in the Protocol.

4.6.5 Completing the weighing

1. To save the weighing protocol, tap Complete.
   - The window Complete task opens.
2. Select an option to save or print the protocol.
   - The respective menu window opens.
3. Follow the instructions of the wizard.
4 Tap ✓Complete
⇒ The Protocol is saved/printed and then cleared.

4.7 Transporting, packing and storing

4.7.1 Transporting the balance over short distances

1 Disconnect the AC/DC adapter and unplug all interface cables.
2 Hold the weighing platform with both hands and carry the balance in horizontal position to the target location. Consider the requirements of the location.
If you want the balance put into operation, proceed as follows:
1 Connect in reverse order.
2 Level the balance.
3 Perform an internal adjustment.

4.7.2 Transporting the balance over long distances

METTLER TOLEDO recommends using the original packaging for transportation or shipment of the balance or balance components over long distances. The elements of the original packaging are developed specifically for the balance and its components and ensure maximum protection during transportation.

See also
Unpacking the balance ➔ Page 8

4.7.3 Packing and storing

Packing the balance
Store all parts of packaging in a safe place. The elements of the original packaging are developed specifically for the balance and its components, and ensures maximum protection during transportation and storage.

Storing the balance
Only store the balance under the following conditions:
• Indoor and in the original packaging
• According to the environmental conditions, see "Technical Data"

Note
When storing for longer than 6 months, the rechargeable battery may become empty (only date and time get lost).

See also
Technical Data ➔ Page 21

5 Maintenance
To guarantee the functionality of the balance and the accuracy of the weighing results, a number of maintenance actions must be performed by the user.
5.1 Maintenance tasks

<table>
<thead>
<tr>
<th>Maintenance action</th>
<th>Recommended interval</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performing an internal adjustment</td>
<td>• Daily</td>
<td>see &quot;Performing an internal adjustment&quot;</td>
</tr>
<tr>
<td></td>
<td>• After cleaning</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• After leveling</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• After changing the location</td>
<td></td>
</tr>
<tr>
<td>Performing routine tests (eccentricity test, repeatability test, sensitivity test).</td>
<td>• After cleaning</td>
<td>see &quot;Tests&quot; in the Reference Manual</td>
</tr>
<tr>
<td></td>
<td>• After assembling the balance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• After a software update</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Depending on your internal regulations (SOP)</td>
<td></td>
</tr>
<tr>
<td>Cleaning</td>
<td>• After every use</td>
<td>see &quot;Cleaning&quot;</td>
</tr>
<tr>
<td></td>
<td>• After changing the substance</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Depending on the degree of pollution</td>
<td></td>
</tr>
<tr>
<td></td>
<td>• Depending on your internal regulations (SOP)</td>
<td></td>
</tr>
<tr>
<td>Updating the software</td>
<td>• Depending on your internal regulations (SOP)</td>
<td>see &quot;Software update&quot; in the Reference Manual</td>
</tr>
<tr>
<td></td>
<td>• After a new software release</td>
<td></td>
</tr>
</tbody>
</table>

See also
- Performing an internal adjustment » Page 15
- Cleaning » Page 18

5.2 Cleaning

5.2.1 Disassembling for cleaning

⚠️ CAUTION

Injury due to sharp objects or broken glass
Instrument components, e.g., glass, can break and lead to injuries.
- Always proceed with focus and care.

1 Open the top door (1) and pull it all the way back, outside of the rails of the side doors. Shortly before the top panel drops out, you can feel a slight resistance. Just keep pulling a little bit tighter.
2 Hold the side doors (2) and push down the lever (3) to release them.
3 Carefully remove both side doors (2).

4 Tilt the front panel (4) to the front and remove it.

5 Carefully remove the closure (5) from top panel of the inner draft shield.
6 Carefully remove the top panel (6).
7 Pull both side doors (7) upwards until the very top and turn 90° outwards.

⇒ The pins in the middle of the doors (8) go out of the openings.
8 Remove both side doors (7).
9 Pull out the front panel (9).
10 To remove the weighing pan (11), slightly lift the front and pull up.

11 Remove the drip tray (10).
12 Store all removed components in a safe place.
⇒ The balance is ready for cleaning.

5.2.2 Cleaning the balance

⚠️ WARNING

Death or serious injury due to electric shock
Contact with parts carrying a live current can lead to injury and death.
1 Disconnect the instrument from the power supply prior to cleaning and maintenance.
2 Prevent liquid from entering the instrument, terminal or AC/DC adapter.
NOTICE

**Damage due to improper cleaning**

Improper cleaning can damage the load cell or other essential parts.

1. Do not use any cleaning agents other than the ones specified in the "Reference Manual" or "Cleaning Guide".
2. Do not spray or pour liquids on the instrument. Always use a moistened lint-free cloth or a tissue.
3. Always wipe out from inside to outside of the instrument.

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Cleaning around the balance

- Remove any dirt or dust around the balance and avoid further contaminations.

Cleaning the terminal

- Clean the terminal with a damp cloth or a tissue and a mild cleaning agent.

Cleaning the removable parts

- Clean the removed part with a damp cloth or a tissue and a mild cleaning agent or clean in a dishwasher up to 80 °C.

Cleaning the weighing unit

1. Disconnect the balance from the AC/DC adapter.
2. Use a lint-free cloth moistened with a mild cleaning agent to clean the surface of the balance.
3. Remove powder or dust with a disposable tissue first.
4. Remove sticky substances with a damp lint-free cloth and a mild solvent, e.g., isopropanol or ethanol 70%.

**Note**

Useful details to avoid soiling the instrument are described in the Mettler-Toledo GmbH "SOP for Cleaning a Balance".

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5.2.3 **Putting into operation after cleaning**

1. Reassemble the balance.
2. Check that the draft shield doors (top, sides) open and close normally.
3. Check if the terminal is connected to the balance.
4. Reconnect the balance to the AC/DC adapter.
5. Check the level status, level the balance if necessary.
6. Respect the warm-up time specified in the "Technical Data".
7. Perform an internal adjustment.
8. Perform a routine test according to the internal regulations of your company. METTLER TOLEDO recommends to perform a sensitivity test after cleaning the balance.
9. Press \(\rightarrow 0 \leftarrow\) to zero the balance.
   - The balance is ready to be used.

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**See also**

- Leveling the balance » Page 15
- Technical Data » Page 21

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6 **Technical Data**

6.1 **General data**

**Power supply**

- **AC/DC adapter:**
  - Primary: 100 – 240 V~, 50/60 Hz
  - Secondary: 12 V DC, 5 A, LPS, SELV
Cable for AC/DC adapter: 3-core, with country-specific plug
Balance power consumption: 12 V DC ± 10%, 2.25 A
Polarity: 

Protection and standards
Overvoltage category: II
Degree of pollution: 2
Standards for safety and EMC: See Declaration of Conformity
Range of application: Use only indoors in dry locations

Environmental conditions
The limit values apply when the balance is used under the following environmental conditions:

Height above mean sea level: Up to 5000 m
Ambient temperature: +10 – +30 °C
Temperature change, max.: 5 °C/h
Relative air humidity: 30 – 70%, non-condensing
Warm-up time: At least 120 minutes after connecting the balance to the power supply. When switched on from standby, the instrument is ready for operation immediately.

The balance can be used under the following environmental conditions. However, the weighing performances of the balance may be outside the limit values:

Ambient temperature: +5 – +40 °C
Relative air humidity: 20% to max. 80% at 31 °C, decreasing linearly to 50% at 40 °C, non-condensing

The balance can be disconnected and stored in its packaging under the following conditions:

Ambient temperature: -25 – +70 °C
Relative air humidity: 10 – 90%, non-condensing

Environmental conditions for comparators
Comparators need to be used under the following environmental conditions to reach the specified performances:

Air speed, max.: 0.15 m/s

7 Disposal
In conformance with the European Directive 2012/19/EU 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, the content of this regulation must also be related.
GWP®
Good Weighing Practice™

GWP® 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

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