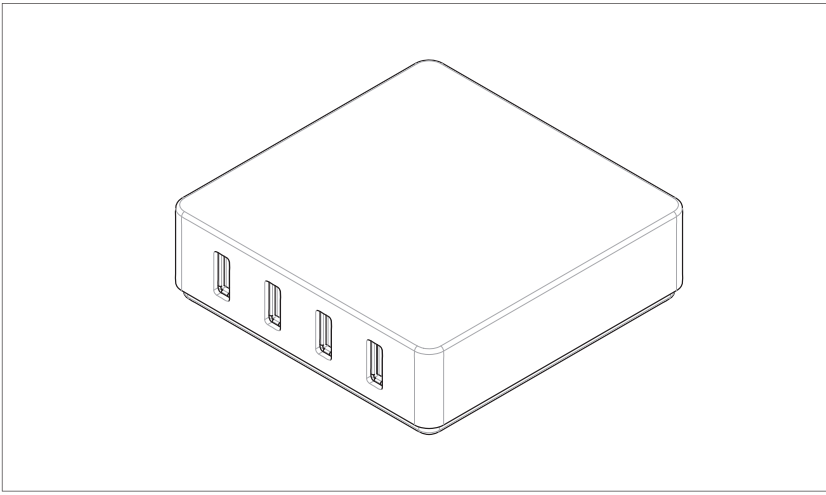
Reference Manual

EasyHub USB

for XPR, XSR Balances



METTLER TOLEDO

1 Introduction

Thank you for choosing a METTLER TOLEDO instrument.

1.1 Further documents and information

This document is available in other languages online.

▶ www.mt.com/EasyHub-USB-RM

Instructions for cleaning a balance: "8 Steps to a Clean Balance"

▶ www.mt.com/lab-cleaning-guide

Search for documents ▶ www.mt.com/library

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

▶ www.mt.com/contact

1.2 Explanation of conventions and symbols used

Conventions and symbols

Key and/or button designations and display texts are shown in graphic or bold text, e.g., ✎, **Edit**.

Note For useful information about the product.

Refers to an external document.

Elements of instructions

In this manual, step-by-step instructions are presented as follows. The action steps are numbered and can contain prerequisites, intermediate results and results, as shown in the example. Sequences with less than two steps are not numbered.

- Prerequisites that must be fulfilled before the individual steps can be executed.

1 Step 1

⇨ Intermediate result

2 Step 2

⇨ Result

1.3 Acronyms and Abbreviations

Original term	Explanation
EMC	Electromagnetic Compatibility
FCC	Federal Communications Commission
LPS	Limited Power Source
RM	Reference Manual
SELV	Safety Extra Low Voltage
USB	Universal Serial Bus

1.4 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

Contact METTLER TOLEDO for questions about the country-specific compliance of your instrument.

United States of America

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.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference received, including interference that may cause undesired operation.

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

2 Safety Information

- This Reference Manual contains a full description of the instrument and its use.
- Keep the Reference Manual for future reference.
- Include the Reference Manual if you transfer the instrument to other parties.

Only use the instrument according to the Reference Manual. If you do not use the instrument according to the Reference Manual or if it 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


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 connecting multiple USB devices to a single port of the balance.

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 GmbH assumes that the instrument owner trains users to safely use the instrument in their workplace and deal with potential hazards. Mettler-Toledo GmbH 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.

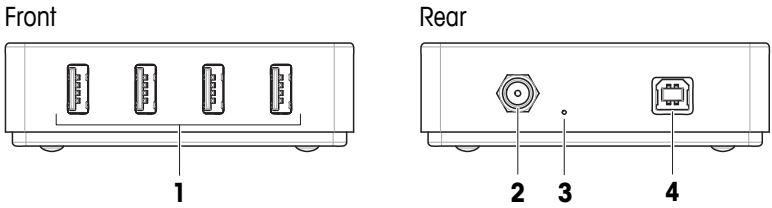
1 Only use the METTLER TOLEDO power cable and AC/DC adapter designed for your instrument.
2 Connect the power cable to a grounded power outlet.
3 Keep all electrical cables and connections away from liquids and moisture.
4 Check the cables and the power plug for damage and replace them if damaged.

NOTICE

Damage to the instrument or malfunction due to the use of unsuitable parts

– Only use parts from METTLER TOLEDO that are intended to be used with your instrument.

3 Overview



1	USB-A ports (to device)	**3**	Power indicator light
2	Power inlet	**4**	USB-B port (to host)

4 Installation

4.1 Scope of delivery

- EasyHub USB
- USB cable A – B
- Anti-dust USB port cover, 4 pcs
- AC/DC adapter with country-specific cable
- Declaration of Conformity
- Reference Manual

4.2 Installing the device

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 in the power inlet of the EasyHub USB.
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.
⇨ The power indicator light turns on.

5 Connect the USB cable A – B to the USB-B port of the EasyHub USB.

6 Connect the other end of the USB cable to one of the USB-A ports on the balance.

7 Connect your USB device to the USB-A port of the EasyHub USB.

⇨ The device appears in the list of devices connected to the balance.

You can connect up to four USB devices to the EasyHub USB. Protect the unused USB-A ports with the provided anti-dust port covers

5 Maintenance

5.1 Cleaning

NOTICE

Damage to the instrument due to inappropriate cleaning methods

If liquid enters the housing, it can damage the instrument. The surface of the instrument can be damaged by certain cleaning agents, solvents, or abrasives.

1 Do not spray or pour liquid on the instrument.

2 Only use the cleaning agents specified in the Reference Manual (RM) of the instrument or the guide "8 Steps to a Clean Balance".

3 Only use a lightly moistened, lint-free cloth or a tissue to clean the instrument.

4 Wipe off any spills immediately.

The housing of this accessory is the same as the one of the balance. All surfaces can therefore be cleaned with a commercially available, mild cleaning agent.

For further information on cleaning a balance, consult "8 Steps to a Clean Balance".

▶ www.mt.com/lab-cleaning-guide

5.2 Service

There are no service options available for this instrument.

6 Troubleshooting

6.1 Error symptoms

Error symptom	Possible cause	Diagnostic	Remedy
On the display, the device connected to the EasyHub USB does not appear in the list of devices connected to the balance.	The device is not properly connected to the EasyHub USB. The EasyHub USB is not properly connected to the balance.	Check that the USB cables are connected properly.	Connect the USB cables properly.
	One of the USB cables is damaged.	Check the USB cables for damage. Check with another USB cable.	Replace the damaged USB cable(s).
	The USB device port on the balance is damaged.	Disconnect the EasyHub USB from the USB device port on the balance. Connect a USB mouse to the same USB device port. Verify that a pointer (arrow) appears on the	If the mouse pointer does not appear, contact your METTLER TOLEDO service representative.

Error symptom	Possible cause	Diagnostic	Remedy
		terminal and can be moved by moving the mouse.	
	The device is damaged or malfunctioning.	Disconnect the device from the EasyHub USB. Disconnect the EasyHub USB from the USB device port on the balance. Connect the device directly to the same USB device port on the balance. Verify that the device appears on the list of connected devices on the balance terminal.	Consult the documentation of the device, if available. Contact your METTLER TOLEDO service representative.
The light on the EasyHub USB is off.	The EasyHub USB is disconnected from power.	Check that the AC/DC adapter and power cable are connected to the EasyHub USB and to the power outlet.	Connect the AC/DC adapter to the EasyHub USB and to the power outlet.
	The AC/DC adapter or power cable is damaged.	Check the AC/DC adapter and the power cable for damage.	Exchange the AC/DC adapter and power cable.
	The EasyHub USB is damaged.	Check with another EasyHub USB, if available.	Replace the EasyHub USB. Contact your METTLER TOLEDO service representative.

7 Technical Data

7.1 General data

Weight (without packaging): 250 g

Power supply

AC/DC adapter: Primary: 100 – 240 V~ ± 10%, 50/60 Hz
Secondary: 12 V DC, 5 A, LPS, SELV

Power consumption: 12 V DC ± 10%, 2.5 A

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

Polarity: 

USB ports

Standard: Compatible with USB 2.0

Device port, output current, max.: 0.5 A

Protection and standards

Overvoltage category: II

Degree of pollution: 2

Range of application: Use only indoors in dry locations

Environmental conditions

Height above mean sea level: Up to 5000 m

Ambient temperature: +5 – +40 °C

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

Storage conditions (in packaging)

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

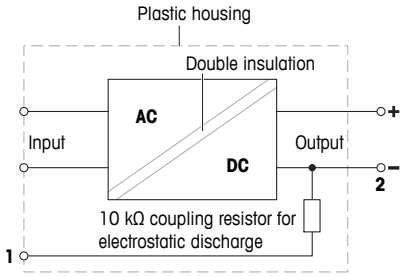
7.2 Explanatory notes for the METTLER TOLEDO AC/DC adapter

The certified external AC/DC adapter complies to the requirements for Class II double insulated equipment. It is not provided with a protective earth connection but with a functional earth connection for EMC purposes. This earth connection **is not** a safety feature. Further information about the compliance of our products can be found in the "Declaration of Conformity" delivered with every product.

In case of testing with regard to the European Directive 2001/95/EC, the AC/DC adapter and the instrument have to be handled as Class II double insulated equipment.

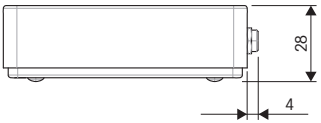
Consequently, a grounding test is not required. It is not necessary to carry out a grounding test between the earth connector of the power plug and any exposed part of the metallic housing of the instrument.

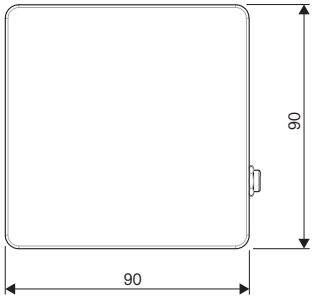
Because the instrument is sensitive to static charges, a leakage resistor of 10 kΩ is connected between the earth connector (**1**) and the negative pole (**2**) of the AC/DC adapter. The arrangement is shown in the equivalent circuit diagram. This resistor is not part of the electrical safety arrangement and does not require testing at regular intervals.



7.3 Dimensions

Dimensions in mm.





8 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

www.mt.com/GWP

www.mt.com/lab-accessories

For more information

Mettler-Toledo GmbH
Im Langacher 44
8606 Greifensee, Switzerland
www.mt.com/contact

30491782A en