

METTLER TOLEDO

Xpress™

Operation and Service Manual

METTLER TOLEDO XRT Price Computing Scale



www.mt.com/xpress

About this manual and METTLER TOLEDO Xpress

Thank you for purchasing a METTLER TOLEDO Xpress product.

All of our equipment is assembled and packed with great care. If you should find any incorrect item, please contact your METTLER TOLEDO Xpress dealer immediately.

The XRT Price Computing Scale is a Weights & Measures approved precision weighing instrument. However, you may want to obtain official certification through your supplier or local Weights & Measures office.

This METTLER TOLEDO Xpress product was developed, produced, and tested in a METTLER TOLEDO facility that has been audited and registered according to international ISO 9001 quality standards and ISO 14000 environment control program. Properly used and maintained, this product will provide years of accurate weighing.

Handle it as you would any piece of fine electronic equipment. Please **read** this manual **before** operating or servicing this equipment. Follow the instructions carefully and save this manual for future reference. We at METTLER TOLEDO Xpress want to make sure you received the product you expected. It is important to us that you are satisfied with your purchase. If there is anything we can help you with, or if you are not satisfied with either your product or the services received from the METTLER TOLEDO Xpress representative, let us know.

How can you reach us?

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1 Safety notice

- ▲ Read this manual before operating or servicing the scale. Save this manual for future reference.
- ▲ Do not allow untrained personnel to operate, clean, inspect, maintain, service or tamper with the scale.
- ▲ Observe safety warnings located throughout this manual.

**DANGER!**

Electric shock hazard!

- Always disconnect all power before any work on the scale.

**CAUTION!**

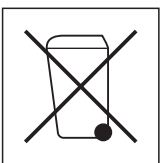
The scale may only be opened by qualified personnel, otherwise the warranty is void.

- Exercise care when moving, testing or adjusting the scale.

**CAUTION!**

Handle the scale with care. It is a precision instrument.

- When the platform has been removed, never clean the area under the platform with a solid object!
- Do not put excessive loads on the scale.
- Avoid banging the platform.

**Disposal**

- Observe the valid environmental regulations when disposing of the scale.
- Batteries contain heavy metals and therefore must not be disposed of with normal waste.
- Observe the local regulations for disposing of environmentally hazardous materials.

2 Preparing your scale for use

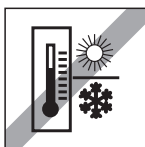
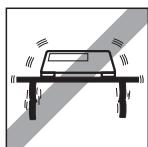
2.1 Unpacking

→ Ensure that all parts are accounted for:

Contents

- XRT price computing scale
- Platform
- AC-DC power adapter
- Quick Start Guide
- Installation Instructions
- CD-ROM with Operation and Service Manual

2.2 Selecting or changing the location

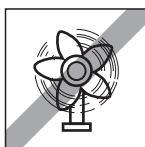
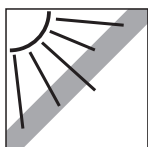


The correct location is crucial to the accuracy of the weighing results.

→ Select a stable, vibration-free and if possible a horizontal location.

The ground must be able to safely bear the weight of the fully loaded scale.

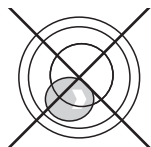
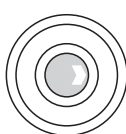
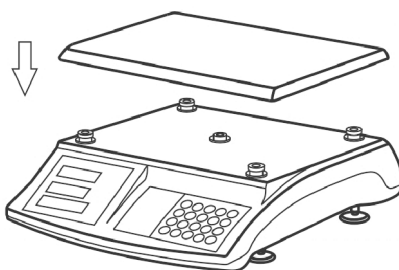
Observe the following environmental conditions:



- No direct sunlight
- No strong draughts
- No excessive temperature fluctuations

2.3 Assembling

→ Put the platform on the spider (aluminum plate). Ensure that the platform is properly aligned.



Aligning the scale

Only scales that have been aligned precisely horizontally provide accurate weighing results. The scales have a spirit level to simplify alignment.

→ Turn the adjustable feet of the scale until the spirit level's air bubble is inside the inner circle.

Major geographical location changes

The manufacturer adjusts each scale to the local gravity conditions (GEO value). In the event of major geographical location changes, this setting must be adjusted. Certified scales must also be recertified observing the national certification regulations.

2.4 Power supply

The scale can be operated with the AC adapter provided or with batteries.

**CAUTION!**

Damage to the scale.

→ Allow the scale to adjust to room temperature before connecting the power supply.

2.4.1 External AC adapter

→ Connect the scale to the power outlet using the adapter provided.

2.4.2 Batteries

You can use D-cell batteries of size UM1. Batteries are not provided with the scale.

**CAUTION!**

Risk of explosion!

- Never replace batteries by an incorrect type.
- Always install the batteries as shown on the battery holder.
- Disposal of used batteries according to local laws and regulations.


1. Make sure that the external power supply is disconnected.
2. Turn the scale upside down and lay the scale carefully on the platform.
3. Open the battery cover by pressing the 2 buttons.
4. Install the batteries as shown on the battery holder. Make sure that all 6 batteries have the same capacity.
5. Close the cover by just putting it back and pressing it to the right location.

2.5 Switching scale on and off

2.5.1 Switching on

Prerequisite

Before switching on the scale always make sure that the platform is free.

→ Press  to switch on the scale.


The scale goes through a series of self-tests.

When all displays show 0 the scale is ready for operation.

Notes

- The scale should be running for about 15 minutes before operation.
- If the scale does not automatically zero upon power up, ensure that the platform is properly aligned and/or recalibrate the scale, see page 27.

2.5.2 Switching off

→ Press and hold  until in the weight display "OFF" is shown.

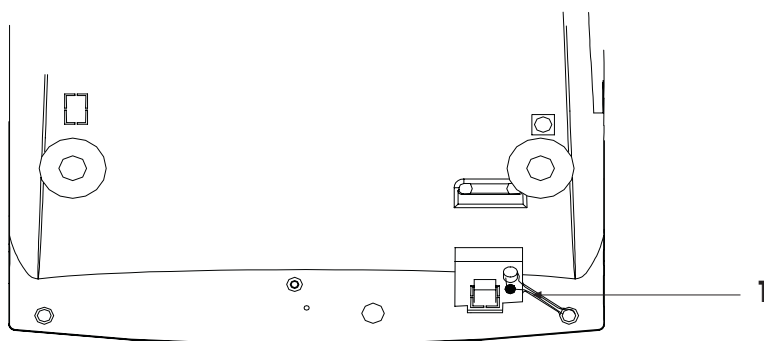
2.6 Sealing

After installation is complete, most legal-for-trade applications require sealing the enclosure so settings cannot be changed. **Please contact your authorized METTLER TOLEDO Xpress dealer to seal your scale.**

There are 2 kinds of sealing: lead wire sealing and sticker sealing.

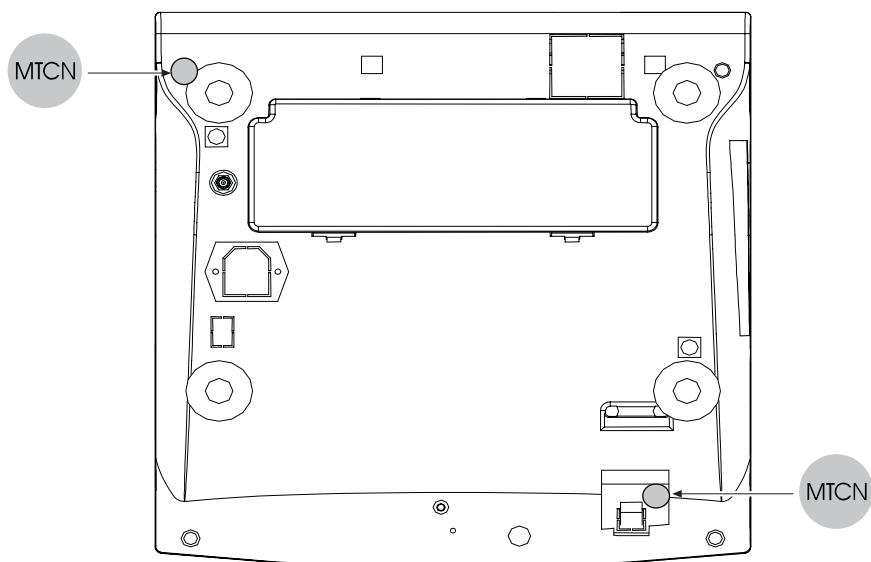
2.6.1 Lead wire sealing

1. Install 2 special through-hole sealing screws and tighten them.
2. Run a wire seal (1) through the holes in the heads of the screws.
3. Apply the seal.



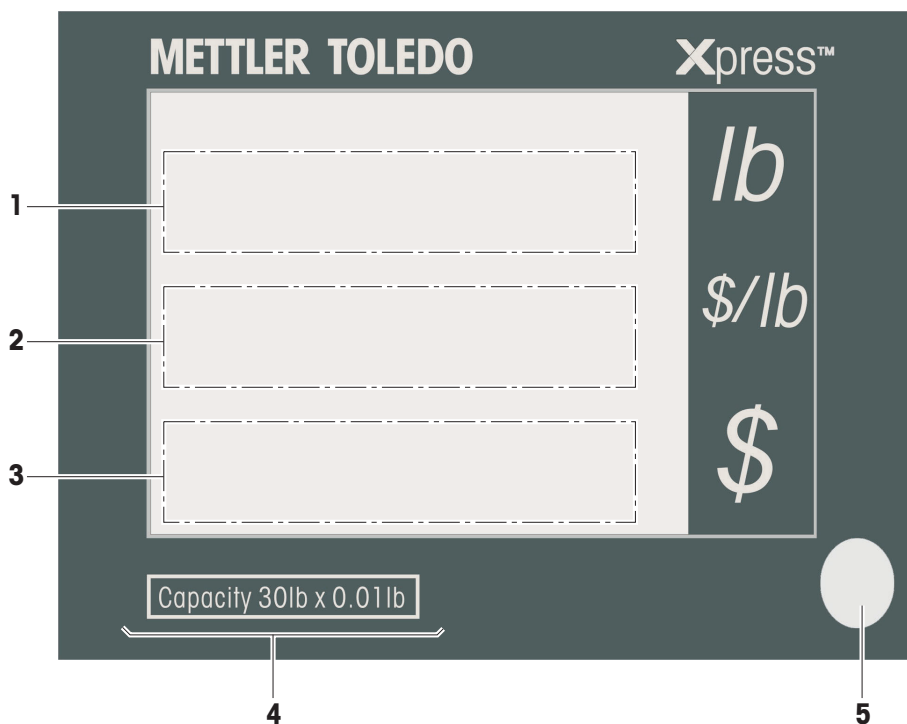
2.6.2 Sticker sealing

→ Apply the sealing stickers to the positions shown below.



3 The XRT price computing scale at a glance

3.1 Display

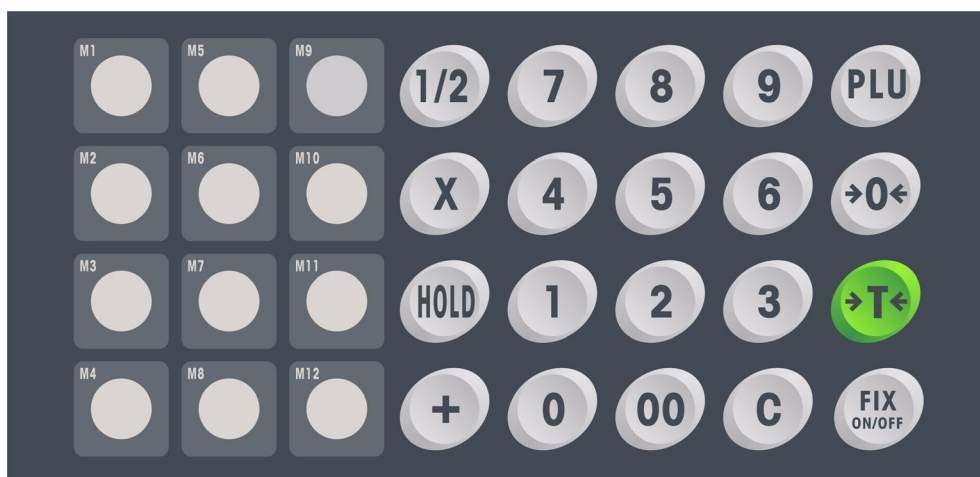


- 1 Weight display
- 2 Unit price display
- 3 Total price display
- 4 Weights & measures marking
- 5 Spirit level

3.2 Cursors

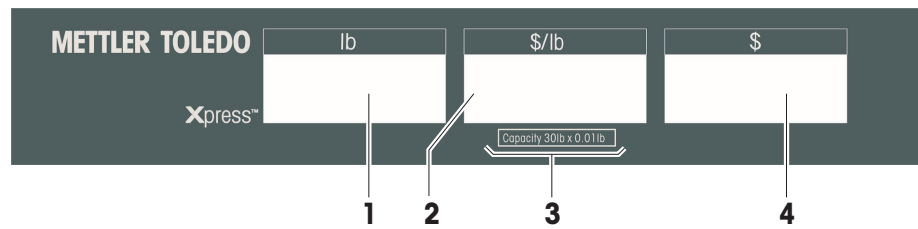
Cursor	The cursor lights when...
Zero	the weight is gross zero
PT	keyboard tare exists or tare is recalled from PLU
TARE	push button tare exists
NET	tare exists
FIX	unit price and tare are fixed
X	the scale is in by-count mode
1/2	1/2 lb pricing is activated
1/4	1/4 lb pricing is activated
100 g	100 g pricing is activated

3.3 Keyboard



Key	Name	Function
M1 ... M12	Memory keys	Store or recall a PLU
	Fraction key	Activating fractional pricing mode If 1/4 lb or 100 g pricing is set in the setup mode, place the appropriate sticker on the key
	By-count key	Activate by-count operation
	Hold key	Hold weight and price when the item is removed from the platform
	Accumulation key	Accumulate current transaction
0 ... 9, 00	Numeric keys	Enter unit price, PLU number or preset tare
	Clear key	Clear the input via the keyboard or the accumulation display
	PLU key	Store or recall a PLU
	Zero key	Setting scale to gross zero
	Tare key	Tare the container weight
	Fix key	Activating prepack weighing Switching scale on/off

3.4 Customer display



- 1 Weight display
- 2 Unit price display
- 3 Weights & measures marking
- 4 Total price display

4 Operating your scale

Note

Not all functions are available on all models. Please check with your dealer which functions are available on your scale.

4.1 Zeroing

For best weighing results set the empty scale to zero before weighing.

4.1.1 Zeroing when switching on

The scale is automatically set to zero when it is switched on.


The zero setting range is $\pm 10\%$ of the scale capacity.

If there is a weight on the scale more than $+10\%$ or less than -10% the scale will not be set to zero and the weight display shows "-----".

→ Remove the weight and/or make sure that the platform is free.

The scale is zeroed.

4.1.2 Pushbutton zero

Setting to zero with  is only possible if

- the displayed weight value is within $\pm 2\%$ of the scale capacity
- the scale is in gross weighing mode, i.e. the NET cursor must be off
- the scale is not in motion, i.e. the motion cursor must be off.

→ Press .

The weight display is set to zero.


4.2 Taring

Taring subtracts the weight of the container or wrapping material.

Depending on the setting in the scale configuration service mode, see page 25, you can either tare with the tare key (pushbutton tare) or enter the tare value on the keyboard (keyboard tare).

4.2.1 Pushbutton tare

1. Place the empty container or wrapping material on the platform.

2. Press .

The weight display is set to zero and the NET cursor is lit.

4.2.2 Keyboard tare

When you know the tare weight of the container, you don't have to weigh and tare the empty container. You can enter the tare weight on the keyboard.

1. Enter the known tare value on the keyboard.

2. Press .

The weight display shows the input tare weight with negative sign and the NET and PT cursors are lit.

Recalling keyboard tare

1. When the PT cursor is lit, press .

The tare weight is displayed in the weight field and the PT cursor is lit in the unit price field.

2. Press  again to return to normal weighing mode.

Clearing keyboard tare

→ When the unit price is zero, press  to clear the keyboard tare.

Note

The tare value entered should be a multiple of the minimum incremental value, otherwise it will be rounded to the next nearest increment.

Example: if the increment is 0.005 kg and the input value is 0.401, the keyboard tare will be 0.400 kg, although the display may show 0.401 during data entry.

4.3 Weighing and pricing

1. Place the item to be weighed on the platform.
2. Enter the price per unit, max. 6 digits.

The weight and the price of the item are displayed.

3. Remove the item from the platform.

In all 3 display fields 0 is shown.

4.4 Fractional pricing

4.4.1 1/2 lb pricing

Prerequisite

This feature is available only if enabled in the scale configuration service mode and permitted by state law, see page 25.

1. Place the item to be weighed on the platform.
2. Enter the price per 1/2 lb, max. 6 digits.
3. Press $\frac{1}{2}$.

The weight and the price of the item are displayed.

4. Remove the item from the platform.

In all 3 display fields 0 is shown.

4.4.2 1/4 lb pricing

Prerequisite

This feature is available only if enabled in the scale configuration service mode and permitted by state law, see page 25.

1. Place the item to be weighed on the platform.
2. Enter the price per 1/4 lb, max. 6 digits.
3. Press $\frac{1}{4}$.

The weight and the price of the item are displayed.

4. Remove the item from the platform.

In all 3 display fields 0 is shown.

4.4.3 100 g pricing

Prerequisite

This feature is available only if enabled in the scale configuration service mode and permitted by state law, see page 25.

1. Place the item to be weighed on the platform.
2. Enter the price per 100 g, max. 6 digits.
3. Press 100g.

The weight and the price of the item are displayed and the 100 g cursor is lit.

4. Press 100g again.


Pricing per kg is re-established.

5. Remove the item from the platform.


In all 3 display fields 0 is shown.

4.5 By-count operation

With this function you can compute the price for non-weighing items, e.g. the price for 36 pieces when 3 pieces cost 1.48.

1. Enter the deal quantity (1-99), e.g. 3.
2. Press .
3. Enter the deal price, e.g. 1.48.
The by-count cursor is lit.
4. Enter the quantity to be sold, e.g. 36.
The scale displays the total price.

Ending by-count operation


→ Press  to get back to normal weighing mode.

4.6 PLU function (Price Look Up)

The PLU function can be used for frequently sold goods. The price can be looked up by simply entering the PLU number.

The PLU function can store 100 PLUs.

4.6.1 Storing a PLU

1. Enter the required unit price and/or tare.
2. Press and hold  until a long beep is heard.
In the weight field PLU appears.
3. Enter the PLU number (1-100) and wait for approx. 3 seconds, until the scale beeps twice.

4.6.2 Recalling a PLU using the automatic search function

Prerequisite


In the setup mode the automatic search function is set to ON, see page 22.

1. Place the item to be weighed on the platform.
2. Enter the PLU number required.
The stored unit price or/and tare appears in the unit price field.
3. Remove the item from the platform.
In all 3 display fields 0 is shown.

4.6.3 Recalling a PLU without using the automatic search function

Prerequisite

In the setup mode the automatic search function is set to OFF, see page 22.

1. Place the item to be weighed on the platform.
2. Enter the PLU number required and press .

The unit price or/and tare stored appear in the unit price field.

3. Remove the item from the platform.

In all 3 display fields 0 is shown.

4.7 Memory key function

The scale has 12 memory keys M1 ... M12 to store and recall 12 or 24 PLUs depending on the setting in the setup mode, see page 22.

4.7.1 Storing a PLU in a memory

1. Enter the unit price and/or tare desired.
2. Press and hold the desired M-key until a long beep is heard.
2 more beeps will be heard to indicate the data has been stored.

4.7.2 Recalling a PLU from a memory

1. Press the desired M-key.
The stored data appear in the display.
2. Remove the item from the platform.
In all 3 display fields 0 is shown.

4.7.3 Storing the 2nd PLU in a memory

When in the setup mode double click function is set to ON, see page 22, 1 memory key can be used to store and recall 2 PLUs.

1. Enter the desired unit price and/or tare.
2. Press and hold the desired M-key until a long beep is heard.
3. Press this M-key again within 1 second.
"L2" appears to indicate this data is stored by double click M-key. 2 more beeps will finish the storage.


4.7.4 Recalling the 2nd PLU from a memory

1. Press the desired M-key twice within 1 second.
"L2" appears in the weight field for half a second. Then the data stored as 2nd PLU appear in the display.
2. Remove the item from the platform.
In all 3 display fields 0 is shown.

4.8 Prepack weighing

When you have to weigh and price several items of the same price and/or tare you need to enter price and/or tare data only once.

This function must be enabled in the setup mode, see page 22.


1. Enter the price data.
2. Press .

The FIX cursor is lit.
3. Place the item to be weighed on the platform and read the total price.
4. Remove the item from the platform.

The unit price and/or tare is held.
5. Repeat steps 3 and 4 as often as you need.
6. When prepack weighing is finished, press the FIX key to return to normal operation.

4.9 Accumulation function




With the accumulation function you can add the total prices of several weighings to the accumulated total.

1. Perform a pricing transaction as described above.
2. Press .

The total price is added to the accumulated total and the cursors "TOTAL" and "ADD" are lit.

The weight field shows "TOTAL", the unit price field shows the number of accumulations and the total price field shows the accumulated total price.
3. Repeat the above 2 steps until all desired transactions are finished.



Finishing the accumulation function

- Press  to clear the accumulator and return to normal weighing mode.
- or –
- Press  to tare and return to normal weighing mode. This is only possible when PT is off.
- or –
- Press the numeric keys to enter a new price and return to normal weighing mode.
- or –
- Press  to recall accumulation when the total price is 0 or the total price field is blank.

4.10 Hold function

With this function the scale keeps transaction data on the display when the item is removed from the scale.

This function is not available in the by-count mode.

1. Place the item to be weighed on the platform.
2. Enter the unit price.
3. Press  to keep the total price on the display.
4. "HOLD" is shown in the weight field.
5. Press  again to return to normal weighing mode.

4.11 Backlight function

The scale is equipped with a backlight for the display when the light of the environment is not bright enough to read the display.

Enabling backlight function

→ Press and hold  until a long beep is heard.

2 more beeps will be heard to indicate the backlight has been switched on.

When the scale is not used for 15 seconds, the backlight will automatically switch off. When a weight is placed on the platform or when a key is pressed, the backlight will switch on again.

Disabling backlight function

→ Press and hold  until a long beep is heard.

2 more beeps will be heard to indicate the backlight has been switched off.

– or –

→ Switch the scale off and on.

4.12 Sleep mode and power-off function


Depending on the settings in the setup mode, see page 22, the scale is sent to sleep mode and/or power is turned off when there are no weight changes or key strokes for a preset time.

Waking up the scale

→ Press a key or put a weight on the scale.





The display lights up.

– or –

→ Press  to switch on the scale.

4.13 Battery operation

When the scale is operated on batteries, the battery cursor indicates the state of the battery.

-  Battery is about full
-  2/3 power of the battery left
-  1/3 power of the battery left
-  The power of the battery is at a critical level

Note

The scale will automatically be switched off when the voltage of the battery is lower than 6 V. Batteries need to be changed.

4.14 Cleaning



CAUTION!

Damage to the scale.

- Do not use any type of industrial solvents or chemicals.

Cleaning

- Clean the keyboard and the display with a soft cloth that has been dampened with a mild window type cleaner or detergent.

5 Setup mode


In the setup mode you can modify parameters concerning your specific application.


5.1 Operating the setup mode


5.1.1 Entering the setup mode


→ Press PLU 4 4 4 4.

5.1.2 Keys and their function in the setup mode

 toggle between available parameters

 back to the last step

 next step

 end setup mode

5.1.3 Ending the setup mode

→ Press PLU.

The changes are saved and the scale returns to normal operation.

5.2 Setup mode functions

The parameters of the setup mode are numbered.
Default settings are printed in **bold**.

Step	Function	Explanation
1	Buzzer	ON Scale will beep when a key is pressed OFF No sound when a key is pressed
2	Sleep mode/Power off	0 Sleep mode and power-off function disabled 1 Sleep mode disabled, automatic power-off after 30 minutes of non-use 2 Sleep mode after 5 minutes of non-use, no automatic power-off 3 Sleep mode after 5 minutes of non-use, automatic power-off after 30 minutes of non-use 4 Sleep mode after 15 minutes of non-use, no automatic power-off 5 Sleep mode after 15 minutes of non-use, automatic power-off after 30 minutes
3	Automatic clearing	ON Automatic clearing of tare weight and unit price when the weight is removed from the platform OFF Manual clearing of tare weight and unit price
4	Prepack (Fix) mode	ON Prepack mode enabled OFF Prepack mode disabled
5	Auto PLU	ON Search PLU automatically OFF Search PLU after pressing PLU key
6	1 or 2 PLUs per memory	ON 2 PLUs can be stored in 1 memory key OFF Only 1 PLU can be stored per memory key
7	Digital filter	The digital filter stabilizes the weight display when the load is moving or vibrating 0 Filter disabled 1 Low filter 2 Medium filter 3 High filter
8	Communication	0 Data output via P command 1 Data output via ON/OFF key and P command 2 Steady output 3 Continuous output

6 Servicing your scale



CAUTION!

The scale may only be serviced by qualified personnel, otherwise the warranty is void.

→ For the following services, please contact your METTLER TOLEDO Xpress dealer.

The scale has 3 different modes for service functions:

- Scale configuration service mode – to adjust the scale to each country's requirements
- Calibration service mode – to enter GEO value and to perform calibration
- High resolution display service mode – to check the accuracy of the scale

Notes

- These functions are directly related to the Weights & Measures regulations in each country. Therefore they are protected by the calibration switch, which is protected by a sealing sticker or sealing lead.
- Operation in the service modes is the same as in setup mode.



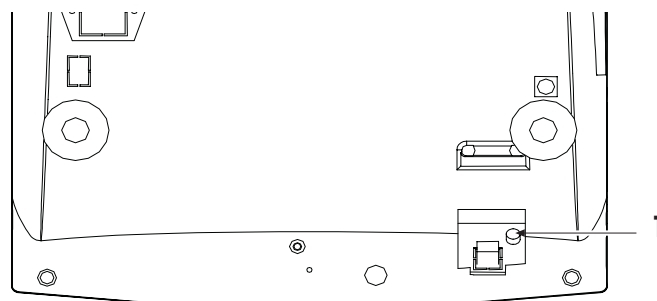
WARNING!

Damage to the scale or bodily harm!

→ Before connecting or disconnecting any internal electronic components or inter-connecting wiring between electronic equipment, always remove power and wait at least 30 seconds before any connections or disconnections are made.

6.1 Switching calibration switch to ON

1. Undo sealing sticker or sealing lead from the sealing screw.
2. Remove the sealing screw (1).
3. Press the switch in the hole.







6.2 Scale configuration service mode

6.2.1 Entering scale configuration service mode

→ With the calibration switch set to ON, press the following keys: PLU 5 5 5 5 5.

6.2.2 Scale configuration service mode functions

The parameters of the scale configuration service mode are numbered.
Default settings for the US are printed in **bold**.

Step	Function	Settings / Explanation	
1	Country selection	With the country selection the following parameters are set automatically: Geo value, weight unit, zero cursor, currency, price format, decimal point or decimal comma, see table on page 26. DE Germany FR France US United States AT Austria, Croatia, Slovenia ES Portugal, Spain BE Belgium, Netherlands, Great Britain, Poland IT Italy CH Switzerland HU Hungary SK Slovakia CZ Czechia E-port Other countries	
2	Reset	YES Reset scale configuration parameters to default settings. These settings meet the Weights & Measures requirements of the selected country. If other settings are made, the scale can no longer be used in commercial environments, NO Do not reset parameters	
3	Decimal comma	OFF Decimal point in all weight and price data, e.g. 3.54 ON Decimal comma in all weight and price data, e.g. 3,54	
4	Decimal places for price	0 No decimal places 1 1 decimal place 2 2 decimal places 3 3 decimal places	
5	Zero cursor	ON Zero cursor enabled OFF Zero cursor disabled	
6	Gross or net zero cursor	ON Zero cursor is lit when the gross or net weight is within the zero range OFF Zero cursor is lit when the gross weight is within the zero range	
7	Weight under zero	ON Show     when the weight is under zero OFF Show negative weight value when the weight is under zero	

Step	Function	Settings / Explanation	
8	Tare	ON	Tare function enabled
		OFF	Tare function disabled
9	Chain tare	ON	Chain tare or multiple tares enabled
		OFF	Only 1 tare per transaction allowed
10	Keyboard tare	ON	Tare can be entered via the numeric keyboard
		OFF	The weight on the platform becomes the tare weight when the TARE key is pressed
11	Clear keyboard tare	ON	Tare can be cleared when the platform is empty
		OFF	Tare can not be cleared via the keyboard
12	By-count mode	ON	By-count mode enabled
		OFF	By-count mode disabled
13	Accumulation	ON	Accumulation enabled
		OFF	Accumulation disabled
14	PLU	ON	PLU (storage of unit price) enabled
		OFF	PLU disabled
15	PLU and tare	ON	Storage of unit price and tare enabled
		OFF	No storage of tare together with the unit price
17	Round total price	ON	Total price will be rounded
		OFF	Total price not rounded
18 *	1/4 lb pricing	ON	1/4 lb pricing enabled
		OFF	1/4 lb pricing disabled
19 *	1/2 lb pricing or 100 g pricing	ON	1/2 lb pricing or 100 g pricing enabled
		OFF	1/2 lb pricing or 100 g pricing disabled
20	Unit price multiplication	ON	Unit price multiplication enabled
		OFF	Unit price multiplication disabled
21	Hold function	ON	HOLD key enabled
		OFF	HOLD key disabled
22	Auto clear of unit price and tare when weight between 2 e and 20 e	ON	Unit price and tare are cleared when the weight is between 2 e and 20 e
		OFF	Unit price and tare will not be cleared when the weight is between 2 e and 20 e

* When the weight unit is lb, the fractional pricing function is 1/2 lb or 1/4 lb.

When the weight unit is kg, the fractional pricing function is 100 g. 1/4 lb pricing is disabled automatically.

Country specifications










Par.	Country	Code	Geo	Currency	Price format	Decimal point	Round- ing	Zero cursor	Weight unit
DE	Germany	D	20	EURO	0,01	Comma	1	off	kg
FR	France	F	19	EURO	0,01	Comma	1	off	kg
US	USA	US		\$	0.01	Point	1	on	lb
AT	Austria	A	18	EURO	0,01	Comma	1	off	kg
	Croatia	HR	18	kn	0,01	Comma	1	off	kg
	Slovenia	SL	18	SIT	0,01	Comma	1	off	kg
ES	Spain	E	15	EURO	0,01	Comma	1	off	kg
	Portugal	P	15	EURO	0,01	Comma	1	off	kg
BE	Belgium	B	21	EURO	0,01	Comma	1	off	kg
	Netherlands	NL	21	EURO	0,01	Comma	1	off	kg
	Poland	PL	21	Zł	0,01	Comma	1	off	kg
	Great Britain	GB	21	£	0,01	Comma	1	off	kg
IT	Italy	I	17	EURO	0,01	Comma	5	off	kg
CH	Switzerland	CH	18	Fr.	0,01	Comma	5	off	kg
HU	Hungary	H	19	Ft	0	Point	1	off	kg
SK	Slovakia	SK	19	SK	0,1	Comma	1	off	kg
CZ	Czechia	CZ	20	kC	0,1	Comma	1	off	kg
E port	Other		12		0.01	Point	1	on	kg




6.3 Calibration service mode

6.3.1 Entering calibration service mode

→ With the calibration switch set to ON, press the following keys: PLU 2 4 6 8 1 3.
SET is shown in the weight display.

6.3.2 Calibration procedure

Display	Press key	Description
SET		Confirm calibration mode
GEO xx	→T← – and/or – 	Select the Geo value required – and/or – confirm the displayed Geo value
DUAL	→T← – and/or – 	Change from dual range to single range – and/or – confirm the option displayed
CAL	→T← – or – 	Do not calibrate, go on with SAVE, see next page – or – Select calibration mode
CAL		Confirm calibration
kg	→T← – and/or – 	Change the calibration unit to lb – and/or – confirm the option displayed
CAP X	→T← – and/or – 	Change the capacity – and/or – confirm capacity displayed
----		Make sure that the platform is empty
		Confirm that the platform is empty
Add xx		The scale wants to calibrate with 2/3 of the capacity, see page 30
	→T← – and/or – 	Change the calibration weight to full capacity – and/or – confirm the displayed calibration weight
5 ... 0		While counting down from 5 to 0 a stable weight value must be found If not, counting will start again until a stable weight value is reached

Display	Press key	Description
SAVE	 – or – 	Leave calibration mode without saving the new calibration values – or – Save the new calibration values
Calibration values		Confirm the saved calibration values and leave calibration mode




6.4 High resolution display service mode

→ Press the following keys: PLU 2 4 6 8 1 3 PLU 2 4 6 8 1 3.

The weight display is amplified by 2 decimal places. A negative weight is indicated by a triangle on the left side of the weight display.

7 Appendix

7.1 Error messages

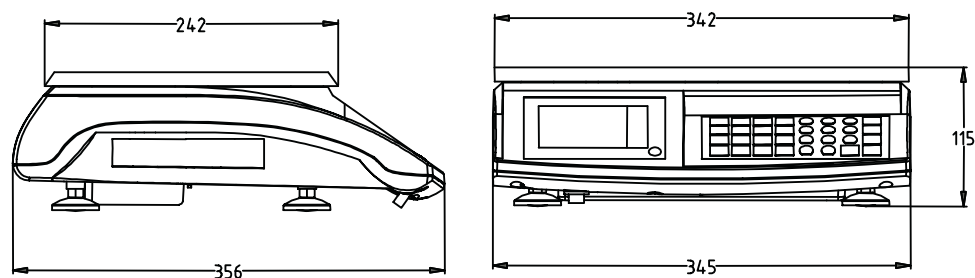
Error Code	Fault	Remedy
E11	RAM error	→ Call METTLER TOLEDO Xpress service
E16	ROM error	→ Call METTLER TOLEDO Xpress service
E18	EEPROM error	→ Call METTLER TOLEDO Xpress service
E31	Quantity > 99 in by-count mode	→ Reduce quantity
E33	Quantity > 99 in accumulation mode	→ Finish accumulation and start a new one
E34	PLU number > 100	→ Enter correct PLU number (1 ... 100)
No PLU	PLU not found	→ Store PLU
Weight display: 	Underload, i.e. weight below zero limit	→ Load scale → Switch scale off and then on again → If message is still on, call METTLER TOLEDO Xpress service
Weight display: 	Overload	→ Decrease load
Price display: 	Price > 9999.99	→ Decrease load

7.2 Technical data

7.2.1 General technical data

Display	<ul style="list-style-type: none"> • LCD with 13.5 mm high characters and backlighting • 6 characters for weight, unit price and total price each
Keyboard	<ul style="list-style-type: none"> • 32-point membrane keyboard • tactile and tone feedback upon pressing the key
Enclosure	<ul style="list-style-type: none"> • plastic top and bottom covers • die-casting spiders
Power consumption	<ul style="list-style-type: none"> • approx. 18 mA without backlighting • approx. 50 mA with backlighting
Power supply	Alternatively <ul style="list-style-type: none"> • External 12 VDC – 14 VDC power supply (120 VAC, 60 Hz, 23 W) • 6 D-cells size UM1
Operating temperature	<ul style="list-style-type: none"> • –10 °C ... +40 °C / 14 °F ... 104 °F
Relative humidity	<ul style="list-style-type: none"> • maximum relative humidity 80 % for temperatures up to 31 °C decreasing linearly to 50 % relative humidity at 40 °C
(Shipping) weight	<ul style="list-style-type: none"> • 5.6 kg • with tower: 6.1 kg
Weights & measures approvals	<ul style="list-style-type: none"> • OIML 3000e T6234 EC Type approval certificate • NTEP 3000

Dimensions



Dimensions in mm

7.2.2 Weighing data

Capacity	3 kg	6 lb	6 kg	15 lb	15 kg	30 lb	30 kg	60 lb
2/3 capacity	2 kg	4 lb	4 kg	10 lb	10 kg	20 lb	20 kg	40 lb
Verified resolution	0.001 kg	0.002 lb	0.002 kg	0.005 lb	0.005 kg	0.01 lb	0.01 kg	0.02 lb
Display resolution	0.001 kg	0.002 lb	0.002 kg	0.005 lb	0.005 kg	0.01 lb	0.01 kg	0.02 lb

7.3 FCC notice

This device complies with Part 15 of the FCC Rules and the Radio Interference Requirements of the Canadian Department of Communications. Operation is subject to the following conditions:

This device may not cause harmful interference, and

This device must accept any interference received, including interference that may cause undesired operation.

WARNING

This equipment generates, uses and can radiate radio frequency energy and if not installed and used properly, i.e., in accordance with the user manual, may cause harmful interference to radio communications. It 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. Operation of this equipment in a residential area is likely to cause harmful interference to radio communications in which case the user will be required to correct the interference at his or her own expense.

7.4 Notes on Weights & Measures

The METTLER TOLEDO Xpress XRT price computing scale meets the requirements of the National Institute of Standards and Technology, Handbook 44.

Local Weights and Measures authorities may have regulations regarding the use of weighing devices in commercial applications. In all cases, Weights and Measures require that a scale be approved and sealed prior to commercial use.

Contact your local Weights and Measures authorities prior to use.

7.5 Geo value table

Note

Geo values on this chart are accurate up to an altitude of 2000 m.

Northern and southern latitude in degrees and minutes	Height above sea-level in meters										
	0 325	325 650	650 975	975 1300	1300 1625	1625 1950	1950 2275	2275 2600	2600 2925	2925 3250	3250 3575
	Height above sea-level in feet										
	0 1060	1060 2130	2130 3200	3200 4260	4260 5330	5330 6400	6400 7460	7460 8530	8530 9600	9600 10660	10660 11730
0° 0' – 5° 46'	5	4	4	3	3	2	2	1	1	0	0
5° 46' – 9° 52'	5	5	4	4	3	3	2	2	1	1	0
9° 52' – 12° 44'	6	5	5	4	4	3	3	2	2	1	1
12° 44' – 15° 6'	6	6	5	5	4	4	3	3	2	2	1
15° 6' – 17° 10'	7	6	6	5	5	4	4	3	3	2	2
17° 10' – 19° 2'	7	7	6	6	5	5	4	4	3	3	2
19° 2' – 20° 45'	8	7	7	6	6	5	5	4	4	3	3
20° 45' – 22° 22'	8	8	7	7	6	6	5	5	4	4	3
22° 22' – 23° 54'	9	8	8	7	7	6	6	5	5	4	4
23° 54' – 25° 21'	9	9	8	8	7	7	6	6	5	5	4
25° 21' – 26° 45'	10	9	9	8	8	7	7	6	6	5	5
26° 45' – 28° 6'	10	10	9	9	8	8	7	7	6	6	5
28° 6' – 29° 25'	11	10	10	9	9	8	8	7	7	6	6
29° 25' – 30° 41'	11	11	10	10	9	9	8	8	7	7	6
30° 41' – 31° 56'	12	11	11	10	10	9	9	8	8	7	7
31° 56' – 33° 9'	12	12	11	11	10	10	9	9	8	8	7
33° 9' – 34° 21'	13	12	12	11	11	10	10	9	9	8	8
34° 21' – 35° 31'	13	13	12	12	11	11	10	10	9	9	8
35° 31' – 36° 41'	14	13	13	12	12	11	11	10	10	9	9
36° 41' – 37° 50'	14	14	13	13	12	12	11	11	10	10	9
37° 50' – 38° 58'	15	14	14	13	13	12	12	11	11	10	10
38° 58' – 40° 5'	15	15	14	14	13	13	12	12	11	11	10
40° 5' – 41° 12'	16	15	15	14	14	13	13	12	12	11	11
41° 12' – 42° 19'	16	16	15	15	14	14	13	13	12	12	11
42° 19' – 43° 26'	17	16	16	15	15	14	14	13	13	12	12
43° 26' – 44° 32'	17	17	16	16	15	15	14	14	13	13	12
44° 32' – 45° 38'	18	17	17	16	16	15	15	14	14	13	13
45° 38' – 46° 45'	18	18	17	17	16	16	15	15	14	14	13
46° 45' – 47° 51'	19	18	18	17	17	16	16	15	15	14	14
47° 51' – 48° 58'	19	19	18	18	17	17	16	16	15	15	14
48° 58' – 50° 6'	20	19	19	18	18	17	17	16	16	15	15
50° 6' – 51° 13'	20	20	19	19	18	18	17	17	16	16	15
51° 13' – 52° 22'	21	20	20	19	19	18	18	17	17	16	16
52° 22' – 53° 31'	21	21	20	20	19	19	18	18	17	17	16
53° 31' – 54° 41'	22	21	21	20	20	19	19	18	18	17	17
54° 41' – 55° 52'	22	22	21	21	20	20	19	19	18	18	17
55° 52' – 57° 4'	23	22	22	21	21	20	20	19	19	18	18
57° 4' – 58° 17'	23	23	22	22	21	21	20	20	19	19	18
58° 17' – 59° 32'	24	23	23	22	22	21	21	20	20	19	19
59° 32' – 60° 49'	24	24	23	23	22	22	21	21	20	20	19
60° 49' – 62° 9'	25	24	24	23	23	22	22	21	21	20	20
62° 9' – 63° 30'	25	25	24	24	23	23	22	22	21	21	20
63° 30' – 64° 55'	26	25	25	24	24	23	23	22	22	21	21
64° 55' – 66° 24'	26	26	25	25	24	24	23	23	22	22	21
66° 24' – 67° 57'	27	26	26	25	25	24	24	23	23	22	22
67° 57' – 69° 35'	27	27	26	26	25	25	24	24	23	23	22
69° 35' – 71° 21'	28	27	27	26	26	25	25	24	24	23	23
71° 21' – 73° 16'	28	28	27	27	26	26	25	25	24	24	23
73° 16' – 75° 24'	29	28	28	27	27	26	26	25	25	24	24
75° 24' – 77° 52'	29	29	28	28	27	27	26	26	25	25	24
77° 52' – 80° 56'	30	29	29	28	28	27	27	26	26	25	25
80° 56' – 85° 45'	30	30	29	29	28	28	27	27	26	26	25
85° 45' – 90° 00'	31	30	30	29	29	28	28	27	27	26	26



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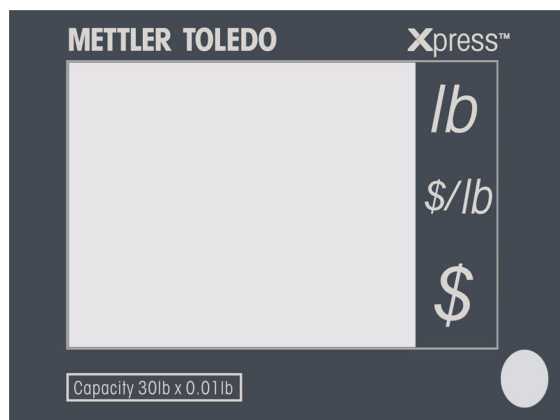
Xpress

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Westerville, OH43081

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XRT STANDARD PRICE COMPUTING SCALE

QUICK START GUIDE



Cursors

Cursor	The cursor lights when...	Cursor	The cursor lights when...
Zero	the weight is gross zero	X	the scale is in by-count mode
PT	keyboard tare exists or tare is recalled from PLU	1/2	1/2 lb pricing is activated
TARE	push button tare exists	1/4	1/4 lb pricing is activated
NET	tare exists	100 g	100 g pricing is activated
FIX	unit price and tare are fixed		

Keyboard

Key	Name	Function
M1 ... M12	Memory keys	Store or recall a PLU
1/2	Fraction key	Activating fractional pricing mode
X	By-count key	Activate by-count operation
HOLD	Hold key	Hold weight and price when the item is removed from the platform
+	Accumulation key	Accumulate current transaction
0 ... 9, 00	Numeric keys	Enter unit price, PLU number or preset tare
C	Clear key	Clear the input via the keyboard or the accumulation display
PLU	PLU key	Store or recall a PLU
>0<	Zero key	Setting scale to gross zero
>T<	Tare key	Tare the container weight
FIX ON/OFF	Fix key	Activating prepack weighing, switching scale on/off

Zeroing when switching on

The scale is automatically set to zero when it is switched on.

If there is a weight on the scale more than +10 % or less than -10 % the scale will not be set to zero and the weight display shows "-----".

→ Remove the weight and/or make sure that the platform is free.

Pushbutton taring and pricing

1. Place the empty container or wrapping material on the platform.

2. Press .

3. Place the item to be weighed on the platform.

4. Enter the price per unit, max. 6 digits.

5. Remove the item from the platform.

In all 3 display fields 0 is shown.

Storing and recalling a PLU**Storing**

1. Enter the required unit price and/or tare.


2. Press and hold  until a long beep is heard.

In the weight field PLU appears.

3. Enter the PLU number (1-100) and wait for approx. 3 seconds, until the scale beeps twice.

Recalling

1. Place the item to be weighed on the platform.

2. Enter the PLU number required and press .

The stored unit price or/and tare appears in the unit price field.

3. Remove the item from the platform.

4. In all 3 display fields 0 is shown.

Note

If in the setup mode the automatic search function is set to ON (see Operation and Service Manual, the stored unit price or/and tare appears directly after entering the PLU number.

Storing and recalling a PLU via memory key**Storing a PLU in the memory**

The scale has 12 memory keys M1 ... M12 to store and recall 12 or 24 PLUs depending on the setting in the setup mode (see Operation and Service Manual).

1. Enter the unit price and/or tare desired.

2. Press and hold the desired M-key until a long beep is heard.

Two more beeps will be heard to indicate the data has been stored.

Recalling a PLU from the memory

1. Press the desired M key.

The stored data appear in the display.

2. Remove the item from the platform.

In all 3 display fields 0 is shown.

XRT STANDARD PRICE COMPUTING SCALE

INSTALLATION INSTRUCTIONS

General

Thank you for purchasing a METTLER TOLEDO Xpress product.

Please inspect the package immediately upon receipt. If the box is damaged, check for internal damage and file a freight claim with the carrier if necessary.

Please keep the packing material and shipping insert in case you need to return the scale to a METTLER TOLEDO Xpress representative.

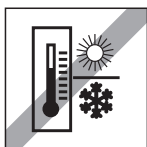
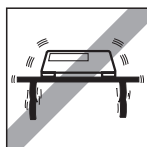
Unpacking

→ Ensure that all parts are accounted for:

Contents

- XRT price computing scale
- Platform
- AC-DC power adapter
- Quick Start Guide
- Installation Instructions
- CD-ROM with Operation and Service Manual

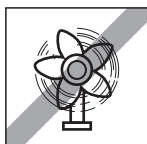
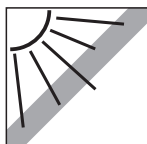
Selecting or changing the location



The correct location is crucial to the accuracy of the weighing results.

→ Select a stable, vibration-free and if possible a horizontal location.

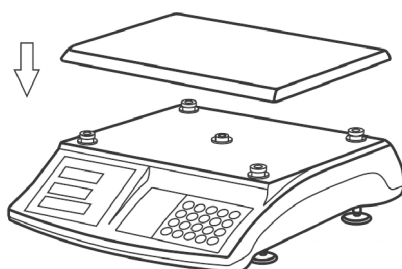
The ground must be able to safely bear the weight of the fully loaded scale. Observe the following environmental conditions:



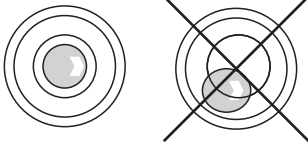
- No direct sunlight
- No strong draughts
- No excessive temperature fluctuations

Assembling

→ Put the platform on the spider (aluminum plate). Ensure that the platform is properly aligned.



Aligning the scale




Only scales that have been aligned precisely horizontally provide accurate weighing results. The scales have a spirit level to simplify alignment.

→ Turn the adjustable feet of the scale until the spirit level's air bubble is inside the inner circle.

Switching on

1. Connect the scale to the power outlet using the adapter provided.

2. Press  to switch on the scale.

The scale goes through a series of self-tests.

When all displays show 0 the scale is ready for operation.

Note

The scale should be running for about 15 minutes before operation.

Customer Service

We at METTLER TOLEDO Xpress want to make sure you received the product you expected. It is important to us that you are satisfied with your purchase. If there is anything we can help you with, or if you are not satisfied with either your product or the services received from the METTLER TOLEDO Xpress representative, let us know.

24/7 Information and Support www.mt.com/xpress
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8 AM to 8 PM EST Toll Free 1-866-MTXPRESS

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