

## Easy Weighing Access

**WEIGHING** Activate weighing application  
Press and hold  
0.00 g  
• Cancel running application

**Tare**  
0.00 g  
→0/T← Press briefly  
121.01 g  
0.00 g Net

**Switching Units**  
22.00 g Unit 1  
↻  
\* 22.00 g M Recall  
• if activated  
0.78 oz Unit 2  
• if activated  
• if different from Unit 1

## Quick Application Access

**F1** Press and hold → **COUNTING** Execute the assigned F1 application. Factory setting: "Piece Counting"

**F2** Press and hold → **PERCENT** Execute the assigned F2 application. Factory setting: "Percent Weighing"

**F3** Press and hold → **CHECK** Execute the assigned F3 application. Factory setting: "Checkweighing"

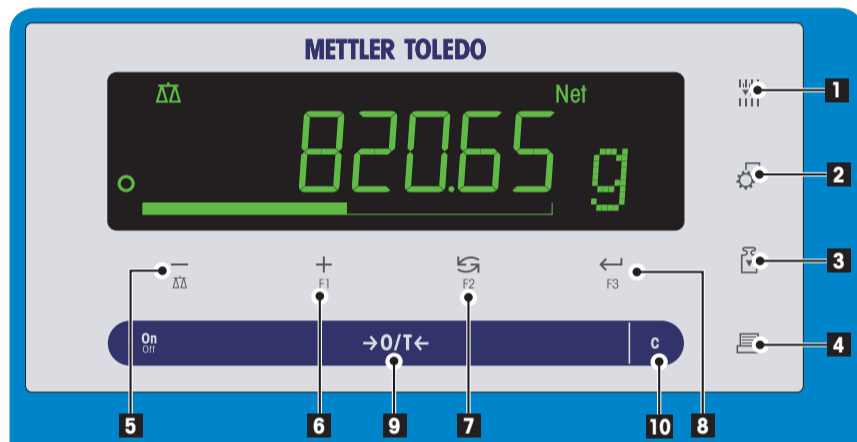
**Application Settings**  
**Note:** There is a **timeout** during the setup. The balance switches back to the **last active** application.

## Direct Adjustment Access

Execute predefined adjusting (calibration) procedure  
**Factory Setting:** Internal adjustment (MSxxxE models: external adjustment)

**External Adjustment Procedure**  
Press briefly  
ADJ:ENT  
1000.00 g  
0.00 g  
ADJ DONE  
0.00 g

## Operation Keys



### Key Functions

No.	Key	Press briefly (less than 1.5 s)	Press and hold (longer than 1.5 s)
1	[Resolution]	To change display resolution (1/10d function) while application is running <b>Note:</b> not available with approved models in selected countries	no function
2	[Menu]	Enter or leave menu (Parameter settings)	no function
3	[Calibration]	Execute predefined adjusting (calibration) procedure	no function
4	[Printout]	Printout display value Printout menu settings Transmit data	no function
5	[Scroll up]	To navigate back (scroll up) within menu topics or menu selections Decrease (numerical) parameters within menu and in applications	To select the weighing application Decrease (numerical) parameters quickly within menu and in applications
6	[F1]	To navigate forward (scroll down) within menu topics or menu selections Increase (numerical) parameters within menu and in applications	To select assigned F1 application and entering the parameter settings of application. Default F1 application assignment: Piece counting Increase (numerical) parameters quickly within menu and in applications
7	[F2]	With entries: scroll down To navigate through menu topics or menu selections To toggle between unit 1, recall value (if selected), unit 2 (if different from unit 1) and the application unit (if any)	To select assigned F2 application and entering the parameter settings of application. Default F2 application assignment: Percent weighing
8	[F3]	To enter or leave menu selection (from / to menu topic) To enter application parameter or switch to next parameter To store parameter	To select assigned F3 application and entering the parameter settings of application. Default F3 application assignment: Checkweighing
9	ON/OFF →0/T←	Switch on Zero/Tare	Switch off
10	C	Cancel and to leave menu without saving (one step back in the menu).	no function

## Display Panel

Application Icons		Status Icons	
[Lock]	Menu locked	M	Indicates stored values (memory)
[Gear]	Menu settings activated	Net	Indicates Net weight values
[Scales]	Application "Weighing"	[Calibration]	Adjustments (calibration) started
[Dots]	Application "Piece counting"	FACT	FACT activated
[%	Application "Percent weighing"	[Diagnostic]	Diagnostic mode & Application "Routine test" activated
[Check]	Application "Check weighing"	[Wrench]	Service reminder
[Bar]	Application "Statistics"	[Speaker]	Acoustic feedback for pressed keys activated
[Formulation]	Application "Formulation / Net-Total"	W1	Weighing range 1 (Dual Range models only)
[Sigma]	Application "Totalling"	W2	Weighing range 2 (Dual Range models only)
[Dynamic]	Application "Dynamic weighing"	[Battery]	Charge of battery; full, 2/3, 1/3, discharged (Battery operated models only)
[F x]	Application "Multiplication factor"		
[F ÷]	Application "Division factor"		
[Density]	Application "Density"		

Weight Value Field	
[Minus]	Indicates negative values
[Circle]	Indicates unstable values
[Asterisk]	Indicates calculated values
[Brackets]	Indicates uncertified digits (approved models only)

Unit Field	
[Grid]	Marking of weighing units:
g	gram
kg	kilogram
mg	milligram
ct	carat
lb	pound
oz	ounce
ozt	troy ounce
GN	grain
dwt	pennyweight
mom	momme
msg	mesghal
t1h	Hong Kong taels
t1s	Singapore taels
t1t	Taiwan taels
tola	tola
baht	baht
>>	Selection available

Weighing-in aid	
[Triangle up]	Marking of nominal or target weight
[Tolerance +]	Marking of tolerance limit T+
[Tolerance -]	Marking of tolerance limit T-

# Menu Map

### Menu Operation

- Enter menu
- Leave menu with saving

Scroll down

Scroll up

- Enter selection or menu
- Execute setting

- One step back
- Leave menu without saving

### Main Menu

- BASIC** >> ← Basic Menu
- ADVANCE** >> ← Advanced Menu
- INT.FACE** >> ← Interface Menu
- PROTECT** >> ← Protection

### Basic Menu

Topic	Selection
DATE >>	01.01.2008
TIME >>	+ 1H
	- 1H
SET TIME >>	12:00
UNIT 1 >>	g
	kg
UNIT 2 >>	g
	mg
	NO
KEY BEEP >>	MED
	HIGH
	OFF
	LOW
STR.BEEP >>	LOW
	MED
	HIGH
	OFF
RESET >>	NO?
	YES?

### Advanced Menu

Topic	Selection
WEIG.MODE >>	UNIVERS.
	DOSING
ENVIRON. >>	STANDARD
	UNSTABLE
	STABLE
CAL >>	ADJ.INT
	ADJ.EIT >>
	200.00 g
	ADJ.OFF
ADJUST.F >>	EXECUTE
	RESET >>
	NO?
	YES?
FAC.T >>	TIME >>
	12:00
	OFF
FAC.T.PRT >>	ON
	OFF

**Legend**

- Factory setting
- Only those weight units allowed by the appropriate national legislation are selectable.
- Not available with MSxxxE models.
- Not available with MSxxxKLIPE models.
- Not available with approved models.
- Not available with approved models (except OIML accuracy class I approved models)
- Settings are automatically set for the 2<sup>nd</sup> display.

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Topic	Selection
DATE.FORM >>	DD.MM.Y
	MM/DD/Y
	Y-MM-DD
	DD.MM.Y
	MM DD Y
TIME.FORM >>	24.MM
	12.MM
	24.MM
	12.MM
RECALL >>	OFF
	ON
SHUTOFF >>	A.OFF 10 min
	A.OFF -
	A.OFF 2 min
	A.OFF 5 min
BACKLIGHT >>	3.L. ON
	3.L. 30 s
	3.L. 1 min
	3.L. 2 min
	3.L. 5 min
DISPLAY >>	BRIGHTN. >>
	50 %
	CONTRAST >>
	75 %
AUTOZERO >>	ON
	OFF
ZERO RNG >>	21.00 g
LANGUAGE >>	ENGLISH
	DEUTSCH
	FRANCAIS
	ESPAÑOL
	ITALIANO
	RUSSIAN
	POLSKI
	ČESKY
	MAGYAR
	NEJERL.
	BR.POR.TUG.
ASSIGN.F1 >>	COUNTING
	PERCENT
	CHECK
	STAT
	FORMULA
	TOTALING
	DYNAMIC
	FACTOR M
	FACTOR D
	DENSITY
ASSIGN.F2 >>	PERCENT
	CHECK
	↓
	COUNTING
ASSIGN.F3 >>	CHECK
	↓
	R.TEST
	COUNTING
	PERCENT
DIAGNOSE >>	REPERT.
	DISPLAY
	KEYPAD T
	CAL.MOT. T
	3AL.HIST
	CAL.HIST
	3AL.INFO
	PROVIDER
SERV.ICON >>	ON
	OFF
SERV.PRST >>	NO?
	YES?

### Interface Menu

Topic	Selection
RS232 >>	PRINTER >>
	PRT.STAB
	PRT.AUTO
	PRT.ALL
	PC-3IR. >>
	PRT.STAB
	PRT.AUTO
	PRT.ALL
	HOST >>
	SEND.OFF
	SEND.STB
	SEND.CONT
	SEND.AUTO
	SEND.ALL
	2.DISPLAY
HEADER >>	NO
	PRT.TIM
	3IT.3AL
SINGLE >>	NET
	6/TIN
SIGNAL >>	OFF
	ON
LINEFEED >>	0
ZERO.PRT >>	OFF
	ON
COMSET >>	MT-SICS
	MT-PM
	SART
3ALDRATE >>	9600
	4800
	600...38400
3IT.PAR >>	8/NO
	7/NO
	7/MARK
	7/SPACE
	7/EVEN
	7/ODD
STOPBIT >>	1 BIT
	2 BITS
HD.SHAKE >>	ON/OFF
	RTS/CTS
	OFF
RS.TX.EOL >>	(CR)LF
	CR
	LF
	CR
	CR
RS.CHAR >>	IBM.DOS
	ANSI.WIN
USB >>	PC-3IR. >>
	PRT.STAB
	PRT.AUTO
	PRT.ALL
	HOST >>
	SEND.OFF
	SEND.STB
	SEND.CONT
	SEND.AUTO
	SEND.ALL
USB.COMS >>	MT-SICS
	MT-PM
	SART
USB.EOL >>	(CR)LF
	CR
	LF
	CR
USB.CHAR >>	ANSI.WIN
	IBM.DOS
INTERVAL >>	0 s

### Protection

Topic	Selection
PROTECT >>	OFF
	ON

