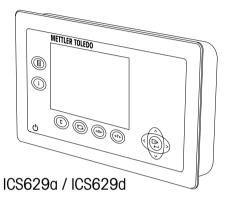
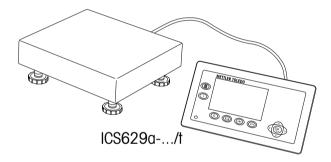
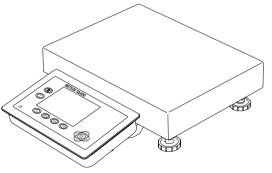
Jser manual

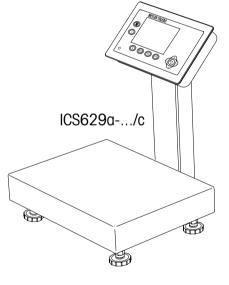
ICS629

Weighing terminals Terminal and platform combinations









ICS629a-.../f





Tailored Services

Congratulations on choosing the quality and precision of METTLER TOLEDO. Proper use according to these instructions and regular calibration and maintenance by our factory-trained service team ensure dependable and accurate operation to protect your investment. Contact us about a ServiceXXL agreement tailored to your needs and budget.

We invite you to register your product at

www.mt.com/productregistration

so we can contact you about enhancements, updates and important notifications concerning your METTLER TOLEDO product.

Contents

1	Introduction	5
1.1	Safety instructions	5
1.2	Presentation	6
1.3	Tracking and tracing features	12
1.4	Commissioning	
1.5	Use in hygienically sensitive areas	16
2	Operation	17
2.1	Switching on and off	17
2.2	Zeroing / Zero point correction	18
2.3	Simple weighing	18
2.4	Weighing with tare	18
2.5	Displaying the capacity available	
2.6	Switching scales	
2.7	Average (dynamic) weighing	
2.8	Working with identifications	
2.9	Printing results	
2.10	Displaying information	
2.11	Environment and cleaning	
2.12	Verification test	
3	Settings in the menu	26
•		
3.1	Operating the menu	
	-	
3.1	Operating the menu	26 29
3.1 3.2	Operating the menu Scale menu block – analog scales	26 29 32
3.1 3.2 3.3	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales	26 29 32 35
3.1 3.2 3.3 3.4	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block	26 29 32 35 37
3.1 3.2 3.3 3.4 3.5	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block	26 29 32 35 37 41
3.1 3.2 3.3 3.4 3.5 3.6	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block	26 32 35 37 41 50
3.1 3.2 3.3 3.4 3.5 3.6 3.7	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block	26 29 32 35 37 41 50
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu	26 29 35 37 41 50 52
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu Quick Select menu overview	26
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1 4.2	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu Quick Select menu overview Entering main menu	26
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1 4.2 4.3	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu Quick Select menu Logout	26 32 35 37 41 50 52 52 52 52 53
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1 4.2 4.3 4.4	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu Quick Select menu Logout Performing routine test	26 29 35 37 41 50 52 52 52 52 52 54
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1 4.2 4.3 4.4 4.5	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu Quick Select menu overview Entering main menu Logout Performing routine test Calling up routine test log file	26
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1 4.2 4.3 4.4 4.5 4.6	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu Quick Select menu Logout Performing routine test Calling up routine test log file Calling up alibi log file	26
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1 4.2 4.3 4.4 4.5 4.6 4.7	Operating the menu	26 29 35 37 41 50 52 52 52 52 52 52 52 52 54 55 56
3.1 3.2 3.3 3.4 3.5 3.6 3.7 4 4.1 4.2 4.3 4.4 4.5 4.6 4.7 5	Operating the menu Scale menu block – analog scales Scale menu block – IDNet scales Application menu block Terminal menu block Communication menu block Maintenance menu block Quick Select menu Quick Select menu Logout Performing routine test Calling up routine test log file Calling up calibration log file Event and error messages	26

6	Technical data and accessories	. 61
6.1	Technical data weighing terminal	. 61
6.2	Technical data weighing platforms	.64
6.3	Accessories	.68
7	Appendix	. 71
7.1	Tests for utilisation in hygienically sensitive areas	. 71
7.2	Notice for verified instruments in EC countries	. 71
7.3	Tables of Geo Code values	. 72
7.4	Disposal	. 73
7.5	Protocol printouts	. 74
7.6	Index	. 75

Introduction

1.1



General

- ▲ Do not use the device in a hazardous environment. Special devices are available in our range of products for hazardous environments.
- ▲ The safety of the device cannot be ensured if it is not operated in accordance with these operating instructions.
- ▲ Only authorised personnel may open the device.

\triangle

Devices with built-in power supply unit

- ▲ Ensure that the power socket outlet for the device is earthed and easily accessible, so that it can be de-energised rapidly in emergencies.
- Ensure that the supply voltage at the installation site lies within the range of 100 V to 240 V.
- Check the power cable regularly for damage. If it is damaged, immediately disconnect the device from the power supply.
- ▲ Ensure that there is a space of at least 3 cm (1.25") at the rear in order to prevent the power cable from being bent too strongly.



Devices with built-in storage battery

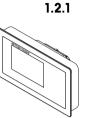
- ▲ Do not use the battery charger in humid or dusty rooms or below 0 °C (32 °F) ambient temperature.
- ▲ After the built-in storage battery has been charged, the cover cap of the charging socket at the device must be closed.



Terminal and platform combinations

- ▲ The maximum static safe load must never be exceeded. Observe the operation limits, see Technical data.
- Avoid falling loads, shock loads as well as impacts from the side.

Presentation



1.2

Weighing terminals There are two versions of the ICS629 weighing terminal: ICS629a with analog scale interface: to connect analog METTLER TOLEDO weighing platforms ICS629d with digital scale interface: to connect METTLER TOLEDO weighing platforms with IDNet interface

On the rear the weighing terminal is equipped with a swivel bracket for mounting the terminal on the wall or to a METTLER TOLEDO column. As an accessory a table stand for setting up the terminal on the table is available.

1.2.2 Terminal and platform combinations

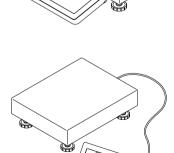
The complete name of a terminal and platform combination also indicates the type, size and capacity of the connected analog weighing platform. E.g., ICS629a-A6/c stands for ICS629a type of weighing terminal and type of weighing interface

- A design and size of the weighing platform
- 6 weighing platform capacity in kg
- c mechanical design

As default the weighing platforms are equipped with a hermetically sealed stainless steel load cell and a readability setting of 2 x 3000 or 5000 divisions, non-approved.

ICS629a-.../f

The weighing terminal is fixed mounted in front of the weighing platform. Terminal and platform can be handled as one unit, easy to install and to change location. The perfect solution if a stand or a bracket would hinder an effective working process.



ICS629a-.../t

Weighing terminal and weighing platform are connected by cable.

Suitable for wall mount operation and desk operation with an additional desk mounting plate, see Options. The combination can be upgraded with a stand, see Accessories.

6



ICS629a-.../c

Hygienic optimal version. Weighing terminal and column are seamlessly welded together. Easy to clean, cables run inside the column.

1.2.3

Options

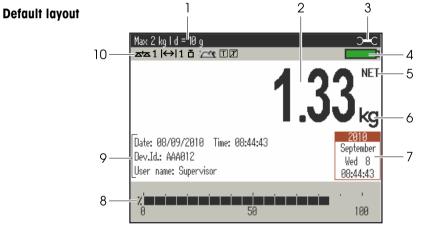
The following options are available for the ICS629:

	ICS629a, ICS629d, ICS629a/f, ICS629a/t	ICS629a/c
Built-in storage battery	r	v
Optional scale interface (SCALE 2)	analogdigital	_
Optional communication interface (COM 2)	 RS232 RS422/RS485 Ethernet WLAN 	 RS232 RS422/RS485 Ethernet WLAN USB Digital I/O
Optional communication interface (COM 3)	 RS232 RS422/RS485 USB Digital I/O 	-
Desk mounting plate	~	-

Terminal and platform combinations

- Load cells for more challenging environments
 - Standard: hermetically sealed stainless steel load cell (identical to PBA430)
 - Option: loadcell with KS+ coating (identical to PBA430 with option loadcell with KS+ coating)
- Other resolutions (availability depending on region, weighing unit and Weights and Measures approval)
 - Verification OIML Class III, 1 x 3,000 e
 - Verification OIML Class III, 2 x 3,000 e MR
 - 6,000 d (non-approvable)
 - 10,000 d (non-approvable)
 - 15,000 d (non-approvable)
 - 30,000 d (non-approvable)





Weight values in 3-line mode

e mode	G: 14.43 kg	
	T: 14.43 kg	0.00_{kg}
	N: 0.00 kg	0.00 Kg

- 1 Metrological data for details see below
- 2 Weight value with star, sign and stability monitor for details see below
- 3 Spanner icon: serviced needed for details see chapter "Event and error messages"
- 4 Battery symbol
- 5 Net/Gross
- 6 Unit
- 7 Calender can be activated/deactivated in the menu
- 8 Bargraph to show the scale capacity used
- 9 3 lines for auxiliary data can be defined in the menu
- 10 Symbol and info line for details see below

Metrological data line

In the metrological data line the following information is displayed:

Symbol	Information	Remark	
(D), (D) (D), (D)	Accuracy classes	Displayed only if the scale is approved according to the Weights and Measures guidelines	
W1, W2, W3	Weighing range information	For multi range devices only, dsplayed only if the scale is approved according to the Weights and Measures guidelines	
Max _, cap	Maximum capacity		
Min	Minimum capacity	Displayed only if the scale is approved according to the OIML Weights and Measures guidelines	
ē =	Approved resolution	OIML: Displayed only if the scale is approved NTEP: Displayed only if the scale is approved and d is different from e	
d =	Display resolution	OIML: Displayed only if the scale is not approved or if d is different from e NTEP: Displayed always	
Approved scale	Approved weighing device	Metrology display disabled, Weights and Measures data must be indicated on a label near the weight display	

Weight display

The weight value can be marked with the following symbols:

Symbol	Information	Remark	
*	Calculated weight value	E.g., for average weighing results	
-	Sign	For negative weight values	
0	Stability monitor	For unstable weight values	
1.2343 kg Non-approved last digit with e > d		it For approved scales only The example shows the weight value for c scale with e = 1 g and d = 0.1 g The last, smaller digit is not approved	

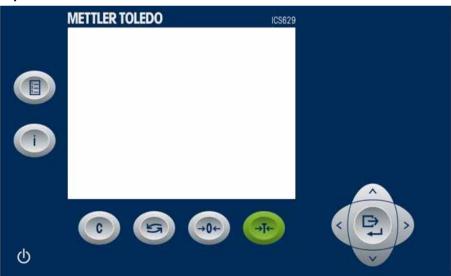
Symbols and info line

In the symbols and info line the following information may be displayed:

Symbol	Information	Remark
<-> 1	Weighing range	For multi range or multi interval scales only
∆'∆ 1	Scale number	Indicates the number of the active scale
Ł	Weight below minimum weight	MinWeigh must be activated in the menu
2 ~~5	Average weighing	Average must be activated in the menu
Τ	Automatic taring	Auto Tare must be activated in the menu
X	Automatic clearing of the tare weight	A-Clear Tare must be activated in the menu
>0<	Center of zero indication	Availability depending on local Weights and Measures regulations

1.2.5

Keyboard



Кеу	Name	Function in the operating mode	Function in the menu
Ċ	Power	Switching on and offCancel editing	Cancel editingExit menu
С	Clear	Clear tareLeave info page	Clear value, clear digit
G	Switch	Switch over weight unit	Re-editSwitch over from numerics to upper/lower case letters
→0← →T←	Zero	Set scale to zero, clear tare	
→T←	Tare	Tare scale, clear tare	
	Quick select	Opening Quick Select menu, e.g., for menu access, viewing log files or logout	
i	Info	Activate info screenProceed to next info line / info pageFreeze and release startup screen	
G→	Transfer	Transfer data to a printer or computer	Enter menu itemConfirm entry/selection
<, >, ^, ∨	Cursor keys	NavigatingAlphanumeric entry	NavigatingAlphanumeric entry

Alphanumeric input

When an alphanumeric input is requested, the following is displayed:

to select, transfer key to confirm	0123456 7891″§\$ %&()=?# ;;′_
character.	./_+-

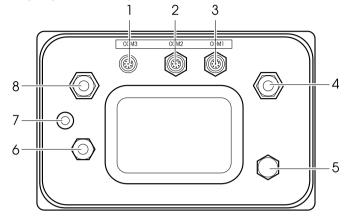
- 1. Use the arrow keys <, >, \land , \lor to select the desired number.
- 2. Use \Box to confirm the character and move to the next place.
- 3. Repeat steps 1 and 2 for further characters.
- 4. To finish input select \leftarrow of the displayed keyboard and confirm with \Box .

Using S you can switch the displayed keyboard from upper case to lower case letters and numerics, if applicable.

Connections

1.2.6

Weighing terminal only, ICS629a-.../f, ICS629a-.../t



- 1 Optional interface COM3
- **2** Optional interface COM2
- **3** Standard interface COM1 (RS232)
- 4 Weighing platform connection SCALE 1
- 5 Pressure compensation
- 6 AC power supply or battery charging
- **7** Verification securing seal
- 8 Optional weighing platform connection SCALE 2

ICS629a-.../c

- 1 Optional interface COM2
- 2 Weighing platform connection
- 3 Pressure compensation
- 4 AC power supply or battery charging
- **5** Standard interface COM1 (RS232)

Note

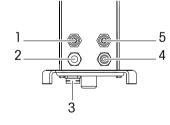
The verification securing seal is applied on the weighing terminal as described in the section above.

1.3

Tracking and tracing features

ICS629 offers some advanced features for tracking and tracing operation on your weighing terminal:

- User management
- Alibi log file
- Routine test and routine test log file
- Calibration weight management



1.3.1

User management

The user management of the ICS629 allows you to manage up to 20 users by

- user name
- user profile (operator or supvervisor)
- user password
- user language
- user ID

When user management is activated, any access to the terminal is protected by password. To enter the menu a password is no longer necessary.

- İ
- User management can be configured in the menu under Terminal -> User Management.
- Login/logout with user management is described in chapter 2.

1.3.2 Alibi log file

If requested by national regulations, you can activate an alibi log file to trace all weighing activities on the scale.

The alibi log file stores all weighings with the mandatory data. In addition you can store up to 4 more items such as identifications, serial numbers and user name.

- The alibi log file can be configured in the menu under Application -> Log files.
- Viewing/printing/transferring of the alibi log file is described in the Quick Select menu.

1.3.3 Routine test and routine test log file

For optimum weighing results the device supports routine calibration tests. You can configure routine tests by

- Interval (days)
- External test (for analog scales)
- Internal test (for scales with internal calibration weight)

For the external test for analog scales you can specify the following:

- Test weight (value)
- Weight name (to make sure you always use the same weight)
- Tolerance

-

- The routine test can be configured in the menu under Application -> Log files.
- Performing the routine test and viewing/printing/transferring of the routine test log file is described in the Quick Select menu.



Calibration weight management

For verified scales the calibration results are stored in the calibration log.

Viewing/printing/transferring of the calibration log file is described in the Quick Select menu.

Commissioning

1.4.1

1.3.4

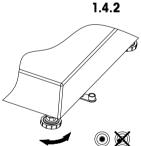
Selecting the weighing platform location

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

→ Select a stable, vibration-free and, if possible, a horizontal location for the weighing platform.

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

- Observe the following environmental conditions: -
 - No direct sunlight
 - No strong drafts
 - No excessive temperature fluctuations



Levelling the weighing platform

Only weighing platforms that have been levelled precisely horizontally provide accurate weighing results. Weights and Measures approved weighing platforms have a spirit level to simplify levelling.

- 1. Turn the adjustable feet of the weighing platform until the spirit level's air bubble is inside the inner circle.
- 2. Tighten the lock nuts of the adjustable feet.

1.4.3

Weighing platform connection and interface commissioning

The weighing platform connection to the weighing terminal as well as the comminssioning of the interfaces are described in the ICS4x9 installation instructions.

→ Call the METTLER TOLEDO service technician or carry out commissioning in accordance with the installation instructions.

1.4.4

Power supply connection CAUTION

Risk of electric shock!

- ▲ Before connecting the power supply, check whether the voltage value printed on the rating plate corresponds to your local system voltage.
- ▲ Do not under any circumstances connect the device if the voltage value on the rating plate deviates from the local system voltage.
- ▲ Make sure the weighing platform has reached room temperature before switching on the power supply.
- → Plug the power plug into the power socket. After it has been connected, the device runs a self-test. The device is ready to operate when zero appears on the display.

1.4.5 Handling of the built-in storage battery

Note the following when operating a device with a built-in storage battery:

- The operating life depends on the intensity of use, the configuration and the connected scale. For details see the technical data.
- The battery symbol shows the current state of charge of the storage battery.
 - One segment corresponds with approx. 25 % capacity.
 - If the symbol flashes, the storage battery has to be charged. A message is displayed, too.
 - During charging the segments are "running" until the battery is fully charged and all segments light up continuously.
- The charging time of the storage battery amounts to approx. 6 hours.
 - If work is continued during the charging process, the charging time is extended.
- The storage battery is protected against overcharging.
- The storage battery has a service life of approx. 2 years or 500 to 1,000 charging/ discharging cycles.
- The storage battery is also suitable for permanent mains operation.



CAUTION

Danger of soiling because the charger for the storage battery is not protected to IP69K!

- ▲ Do not charge the device in humid or dusty rooms.
- ▲ After the storage battery has been charged, close the cover cap of the charging socket at the device.



CAUTION

- No success in charging the storage battery due to low temperatures!
- ▲ Do not charge the battery if the battery temperature is below 0 °C (32 °F). Charging is not possible in this temperature range.
- Do not operate the battery charger outside its temperature range of 0 °C to 40 °C (32 °F to 104 °F).

Recommended use of the built-in storage battery

The characteristics mentioned above are only valid if the following recommendations are observed:

- Connect the device to the battery charger as soon as the warning message "Low battery" appears and the battery symbol starts flashing. When the message appeares you still have enough time (at least 10 minutes) to complete your current task.
- Keep the battery charger connected until the charging process is completed, i.e., all segments of the battery symbol light up continuously.
- For optimum battery performance operate the device with built-in storage battery at an ambient temperature in the range of 10 °C to 30 °C (50 °F to 86 °F). This applies to discharging as well as charging the battery.
- If you plan to put the scale out of operation for a longer period, charge the battery completely.
- Even if you do not use the instrument, charge the battery at least every 3 months to avoid deep discharge.

1.5 Use in hygienically sensitive areas

The device is easy to clean and is designed to be used in the food industry.

Features

- Suitability of the materials for contact with foodstuffs
- Construction made of stainless steel
- No open threads
- No screws with recesses
- Smooth, non-porous and flat surfaces that are easy to clean
- Reduced horizontal surfaces
- Continuous welding seams

For further information please refer to the appendix.

2 Operation

2.1 Switching on and off

2.1.1 Switching on	 Switching on/off → Press ^(J). For a few seconds the device shows a start-up screen with device name, software version, serial number of the weighing terminal and the Geo value (only if an analog weighing device is connected).
İ	 You can freeze the start-up screen by pressing <i>i</i>. When you start a weighing system with an analog scale the first time, a message is displayed: "Scale not calibrated". Call the METTLER TOLEDO service technician to calibrate the scale. When user management is active, you are asked to select your name and enter the corresponding password.
Switching off	→ Press ⁽¹⁾ . Before the display goes out, -OFF- appears briefly.
2.1.2	Login/logout When user management is active, a login/logout procedure is required. The login screen is displayed after switching on or logging out.
Login	 Select your name using the cursor keys ∧ / ∨ and confirm with □. Enter your password using the displayed keyboard. A welcome screen and then the weight display appear.
Logout	 Press to open the Quick Select menu. Select Logout using the cursor keys A safety prompt is displayed. Press C>. The login screen is displayed, the current user is logged out.
i	Always log out when leaving the terminal in order to prevent unauthorised persons from working on it.

2.2 Zeroing / Zero point correction

Zeroing corrects the influence of slight changes on the load plate or minor deviations from the zero point.

Manual 1. Unload scale. 2. Press →0←.

Zero appears in the display.

Automatic In case of non-verified scales, the automatic zero point correction can be deactivated in the menu or the zero range can be changed. Approved scales are set fixed to 0.5 d. As standard, the zero point of the scale is automatically corrected when the scale is unloaded.

- The zero function is only available within a limited weighing range.
- After zeroing the scale, the whole weighing range is still available.
- A successful zeroing will always delete a tare weight.

- 1. Place weighing sample on the scale.
- 2. Wait until the stability monitor **O** goes out.
- 3. Read the weighing result.

2.4 Weighing with tare

2.4.1

Taring
 → Place the empty container on the scale and press →T
 The zero display and the symbol NET appear.
 The tare weight remains stored until it is cleared.

2.4.2 Clearing the tare
→ Press C. The symbol NET goes out, the gross weight appears in the display.
If the symbol is displayed, i.e., the A-Clear Tare function is activated in the menu under Scale -> Tare, the tare weight is automatically cleared as soon as the scale is unloaded.

2.4.3 Automatic clearing of the tare

A tare weight is automatically cleared when the scale is unloaded.

Prerequisite

✓ The symbol I is displayed, i.e., the tare function A-Clear Tare is activated in the menu under Scale -> Tare.

2.4.4 Automatic taring If you place a weight on an empty scale, the scale tares automatically and the symbol NET is displayed.

Prerequisite

✓ The symbol ⊥ is displayed, i.e., the tare function Auto Tare is activated in the menu under Scale -> Tare.

The weight to be tared automatically, e.g., packaging material, must be heavier than 9 display steps of the scale.

2.4.5 Chain tare

With this function it is possible to tare several times if, e.g., cardboard is placed between individual layers in a container.

Prerequisite

- ✓ The fore function Chain tare is octivated in the menu under Scale -> Tare.
- Place the first container or packaging material on the scale and press →T<. The packaging weight is automatically saved as the tare weight, the zero display and the symbol NET appear.
- 2. Weigh the weighing sample and read/print out the result.
- 3. Place the second container or packaging material on the scale and press $\rightarrow T \leftarrow$ again.

The total weight on the scale is saved as the new tare weight. The zero display appears.

- 4. Weigh the weighing sample in the second container and read/print the result.
- 5. Repeat steps 3 and 4 for other containers.

2.4.6 Tare preset

If you know the weight of your containers, you can enter the tare weight via barcode or SICS command. Thus you do not have to tare the empty container.

Prerequisite

 \checkmark For barcode use <code>Tare preset</code> is selected as destination for external input.

- Enter the known tare weight via barcode or SICS command. The weight display shows the negative tare weight and the symbol **NET** appears.
- 2. Place the full container on the weighing platform.

The net weight is displayed.

The entered tare weight is valid until a new tare weight is entered or the tare weight is cleared.



100

Displaying the capacity available

The terminal provides a graphic display of the scale capacity available. The bargraph indicates how many per cent of the scale capacity is already occupied and what capacity is still available.

In the example, approx. 65 % of the scale capacity is occupied.

Switching scales

Prerequisites

- ✓ For manual totalisation the soft key ∠ (Switch scale) is activated in the menu under Terminal -> Device -> Keyboard -> Softkeys.
- → Press the soft key ∠ to switch from scale 1 to scale 2 or vice versa. The current active scale is displayed in the symbol and info line on the top of the display.

2.6

20 METTLER TOLEDO USER MANUAL ICS629

2.7 Average (dynamic) weighing

With the average weighing function, it is possible to weigh restless weighing samples such as living animals. If this function is activated, 2013 is displayed in the info line. With average weighing, the scale calculates the mean value from 56 weighing operations within 4 seconds.

- With manual start
 ✓ Average -> Manual is selected in the menu.
 - ✓ Weighing sample heavier than 9 scale divisions.
 - 1. Place the weighing sample on the scale.
 - 2. Press \Box to start average weighing.
 - 3. During average weighing, stars appear in the display, and the average result will be displayed with the symbol *****.
 - 4. Unload the scale to be able to start a new average weighing operation.

With automatic start ✓ Average -> Auto is selected in the menu.

- ✓ Weighing sample heavier than 9 scale divisions.
- Place the weighing sample on the scale. Average weighing starts automatically. During average weighing, stars appear in the display, and the average result will be displayed with the symbol *.
- 2. Unload the scale to be able to perform a new average weighing operation.

2.8 Working with identifications

Weighing series can be assigned 3 identification numbers ID1, ID2 and ID3 with up to 40 characters that are also printed out in the protocols. If, for example, a customer number and an article number are assigned, it can be clearly seen in the protocol which article was weighed for which customer.

Barcode use (for one identification only)

- ✓ ID1, ID2 or ID3 is selected as destination for external input.
- \checkmark To display the identification ID1, ID2 or ID3 is activated in the auxiliary line.

Using SICS command set (up to three identifications)

 To display the identification(s) ID1 and/or ID2 and/or ID3 are activated in the auxiliary line.

2.9 Printing results

If a printer or computer is connected, weighing results and other information can be printed out or transferred to a computer.

→ Press 🕰.

The defined data is printed out or transferred to the computer.

The printout content can be defined in the Templates menu.

2.10 Displaying information

Up to 18 different values for display can be configured in the menu for the info key. Depending on the configuration in the menu Terminal -> Device -> Keyboard

- -> Info key, the following data can be assigned in a free order, e.g.:
- Date & Time
- Weight values
- Identifications
- Device information
- Serial numbers and software versions
- User name
- 1. Press I.
 - The (first) info screen is displayed.
- 2. Press again.

With one info screen only, the weight display appears.

- With several info screens, the next info screen is displayed.
- 3. With several info screens, press ${f C}$ to leave the info screens.

An info screen is displayed until **i** is pressed again or **C** is pressed.



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2.11 Environment and cleaning

2.11.1 Overview

The devices are designed to be used in a wet environment. Depending on the environment and the cleaning procedures we suggest weighing platforms with different types of load cells. The following table gives you a detailed overview about the recommended environment and suitable cleaning procedures.

	Terminal	Weighing platform	
	ICS629a ICS629d	Standard version hermetically sealed stainless steel load cell	Option load cell with KS+ coating
IP rating	IP68/IP69k	IP68/IP69k	IP68/IP69k
Environment			
Short time wet (30 min / day)	~	~	~
Part time wet (120 min / day)	~	~	~
Permanent wet	~	~	~
Cleaning procedure			
Wet wipe down	~	~	~
Light hose down < 5 I / min, 20 kPa	V	~	~
Light wash down < 12.5 I / min, 30 kPa	V	~	~
Heavy wash down high pressure water and steam jet up to 10000 kPa	v	~	V
Cleaning detergents			
Mild detergents	~	~	~
Other detergents in accordance with the manufacturer's specifications and instructions	~	~	V
Acids, lyes, solvents	-	-	~



General cleaning recommendations Risk of electric shock

- ▲ Before cleaning, unplug the power plug in order to disconnect the terminal from the power supply.
- ▲ Cover open connectors with cap plugs.
- Clean the protective cover separately. The protective hood is dishwasher-safe.
- Replace the protective hood regularly.
- Take off the load plate and remove any dirt and foreign substances which may have collected underneath. Do not use any hard objects to do so.
- Do not disassemble the weighing device.
- Remove any possibly remaining detergent by rinsing with clear water.
- To prolong the lifetime of the load cell, dry it with a soft lint-free cloth immediately after cleaning.
- Observe all the existing regulations on cleaning intervals and permissible cleaning agents.

Cleaning of different weighing platforms as described in this User manual

→ Make sure to observe the cleaning instructions for the connected weighing platform. The weighing platform may not be designed for wet environments and the cleaning procedures described above.

2.12 Verification test

The weighing instrument is verified if

- the accuracy class is displayed in the metrological line,
- the securing seal is not tampered with,
- it bears an official verification mark, e.g., the green M sticker (OIML),
- the validity is not expired.

The weighing instrument is also verified if

- the metrological line shows "Approved scale",
- labels with the metrological data are placed near the weight display,
- the securing seal is not tampered with,
- it bears an official verification mark, e.g., the green M sticker (OIML),
- the validity is not expired.



The period of validity is country-specific. It is in the responsibility of the owner to renew verification in due time.

Terminal and platform combinations

Combinations of a weighing terminal and an analog weighing platform use a Geo Code to compensate for gravitational influence.

The manufacturer of the weighing instrument uses a defined Geo Code value for verification.

→ Please check if the Geo Code in the instrument corresponds with the Geo Code value defined for your location.

The Geo Code value is displayed when you switch on the instrument. The Geo Code for your location is shown in the Appendix.

→ Call the METTLER TOLEDO service technician if the Geo Code values do not match.

3 Settings in the menu

In the menu, settings can be changed and functions can be activated. This enables adaptation to individual weighing requirements.

The menu consists of the following 5 main blocks containing various submenus on several levels.

Scalesee section 3.2 (analog scales) or 3.3 (IDNet scales)Applicationsee section 3.4Terminalsee section 3.5Communicationsee section 3.6Maintenancesee section 3.7

3.1 Operating the menu

3.1.1 Calling up the menu and entering the password

The menu differentiates between 2 operating levels: Operator and Supervisor. The Supervisor level can be protected by a password. When the device is delivered, both levels are accessible without a password.

Operator menu 1.

1. Press

The Quick Select menu opens, Menu is highlighted.

2. Press 🗲→.

Enter code is displayed.

3. Press \hookrightarrow again.

The menu item Terminal is displayed. Only parts of the submenu Device are accessible.

Supervisor menu 1. Press

The Quick Select menu opens, Menu is highlighted.

Enter code is displayed.

3. Enter the password.

The first menu item Scale is highlighted.

- When the device is first delivered, the supervisor password is set to 423. Set your individual password in the Terminal menu.
- If a password has still not been entered after a few seconds, the scale returns to the weighing mode.
- If a password has been issued for Supervisor access to the menu and you have forgotten it, please contact the METTLER TOLEDO service.

Calling up menu when user management is active

If user management is active, password entry is required when logging in.

1. Press

The Quick Select menu opens, Menu is highlighted.

Press □>.
 The menu start screen is displayed, depending on the user profile.

3.1.2 Display presentation in the menu

Menu items are displayed together with their context. The following example shows the menu start screen.

1—	_	Menu	
2—	Scale Application Terminal Communication	Calibration Display/Units Zero Tare Restart Restart Filter MinWeigh Reset	4
	Maintenance		
3—	Use navigation keys	to navigate through the menu	

- 1 Menu info line, i.e., menu path of the current menu item
- 2 Menu items; the selected menu item is highlighted
- 3 Navigation info line
- 4 Sub-menu items

3.1.3 Exiting the menu

1. Press 也.

The last menu item End appears. "Save settings?" is displayed.

2. Press OK.

The menu changes are saved and the terminal returns to the weighing mode. - or -

- → Press **ESC** for further menu settings.
 - or -
- → Press **NO** to discard changes and return to the weighing mode.

3.1.4 Selecting and setting parameters in the menu

Example: Setting of the Chain tare function

Scale Application Terminal Communication Maintenance	Menu Calibration Display/Units Zero Tare Restart Filter MinWeigh Reset	1.	In the menu start screen press > to switch to the right side. The first submenu Calibration is highlighted.
Calibration Display/Units Zero Tare Restart Filter MinWeigh Reset	Scale Auto tare Chain tare A-Clear tare	3.	Use Use / ^ to select Tare. The current Tare settings are displayed on the right side. Press > to open the selected (highlighted) menu item Tare. The Tare submenus are displayed on the left side.
Sca Auto tare Chain tare A-Clear tare	ale — Tare On		Use \vee / \wedge to select Chain tare. The current Chain tare setting is displayed on the right side. Press > to open the selected (highlighted) menu item Chain tare. All possible Chain tare settings are displayed on the right side, the current setting is highlighted. Use \vee / \wedge to change the Chain tare setting. Confirm the setting with \Box .

3.2 Scale menu block – analog scales

Factory settings are printed in **bold** in the following overview.

3.2.1 Overview

Level 1	Level 2	Level 3		
Calibratio	Calibration			
Display/	Unit 1	g, kg , oz, lb, lb-oz, t		
Units	Unit 2	g , kg, oz, lb, lb-oz, t		
	Resolution			
	Unit roll	On, Off		
Zero	AZM	Off, 0.5 d , 1 d, 2 d, 5 d, 10 d		
Tare	Auto tare	On, Off		
	Chain tare	On , Off		
	A-Clear tare	On, Off , 9 d		
Restart	On, Off			
Filter	Vibration	Low, Medium , High		
	Process	Universal, Dosing		
	Stability	Fast, Standard , Precise		
MinWeigh	Function	On, Off		
Reset	Perform reset ?			

3.2.2	Description of the (analog) SCALE menu block
	(Analog) Scale –> Calibration This menu item is not available for verified scales.
Perform calibration ?	 Unload scale. Start calibration with E⇒. The scale determines the zero point, -0- appears in the display. The calibration weight to be placed on the scale flashes in the display. If necessary, change the weight value displayed with ⇒T Place the calibration weight on the scale and confirm with E⇒. The scale calibrates with the calibration weight loaded. After calibration is completed, -Done- appears briefly in the display and the calibration protocol is displayed. Extension 14:55:44 User name: ABC Test weight: 0.80kg Weight name: WI Scale number: 1 Comments: COMMENT You can now enter User name, Weight name and Comments if applicable.
Note	 In order to achieve particularly high precision, calibrate under full load. The calibration process can be aborted using ひ. The calibration protocol is stored in the calibration log file.

(Analog) Scale -> Display/Units - Weighing unit and display accuracy

Unit 1	Select weighing unit 1: g, kg, oz, lb, lb-oz, t	
Unit 2	Select weighing unit 2: g, kg, oz, lb, lb-oz, t	
Resolution	Select readability (resolution), the possible settings depend on the connected scale.	
Unit roll	When unit roll is switched on, the weight value can be displayed in all available units with S .	
Notes	 In case of verified scales, individual sub-items of the Display menu item may not be available or only to a limited extent, depending on the respective country. On dual-range/dual interval scales, resolutions marked with I<->I 1/2 are divided up into 2 weighing ranges/intervals, e.g., 2 x 3000 d. 	

(Analog) Scale -> Zero - Automatic zero update

AZM	On verified scales, this menu item does not appear.
	Switching on/off automatic zero update and selecting zeroing range.
	Possible settings: Off; 0.5 d ; 1 d; 2 d; 5 d; 10 d

(Analog) Scale -> Tare - Tare function

Auto tare	Switching on/off automatic taring		
Chain tare	Switching on/off chain tare		
A-Clear tare	 Switching on/off automatic clearing of the tare weight when the load is removed from the scale. On The tare weight is automatically cleared if the gross weight is 0 or below zer Off No automatic clearing of the tare weight 9 d The tare weight is automatically cleared if the gross weight is within +/- 9 display steps 		

(Analog) Scale -> Restart - Automatic saving of zero point and tare value

Restart	When the restart function is activated, the last zero point and the tare value are saved.
	After switching off/on or after a power interruption, the device continues to work with the
	saved zero point and tare value.

(Analog) Scale –> Filter –	
Adaptation of the ambient conditions and the wei	ghing type

Vibration	Adaptation to ambient conditions	
Low	 Very steady and stable environment. The scale works very rapidly, but is very sensitive to external influences. 	
Medium	Normal environment. The scale operates at medium speed.	
High	 Restless environment. The scale works more slowly, but is insensitive to external influences. 	
Process	Adaptation to the weighing process	
Universal	Universal setting for all weighing samples and normal weighing goods.	
Dosing	Dispensing liquid or powdery weighing samples.	
Stability	Adjusting the stability detector	
Fast	The scale operates very fast.	
Standard	The scale operates at medium speed.	
Precise	The scale operates with the greatest possible reproducibility.	
	The slower the scale works, the greater the reproducibility of the weighing results.	

(Analog) Scale -> MinWeigh - Minimum weighing-in quantity

Before you can use this function, the METTLER TOLEDO service technician has to determine and to enter a minimum weight value.

Function	Switching minimum weight function on/off	
	If the weight on the scale drops below the stored minimum weight, 🖾 appears in the	
	symbols and info line.	

(Analog) Scale -> Reset - Resetting scale settings to factory settings

Perform reset ?	Confirmation inquiry
	Reset the analog scale settings to factory settings with YES.
	Do not reset the analog scale settings with NO.
	·

3.3 Scale menu block – IDNet scales

Overview

Factory settings are printed in **bold** in the following overview.

3.3.1

Level 1	Level 2	Level 3	
Display/	Unit 2	g , kg, oz, lb, t	
Units	Unit roll	On, Off	
Zero	AZM	On , Off	
Tare	Auto tare	On, Off	
	Chain tare	On , Off	
	A-Clear	On, Off , 9 d	
	tare		
Restart	On, Off		
Filter	Vibration	Stable, Normal , Unstable	
	Process	Finefill, Universal , Absolut	
	Stability	ASD=0, ASD=1, ASD=2 , ASD=3, ASD=4	
Update	The possible settings depend on the connected scale		
MinWeigh	Function	On, Off	
Reset	Perform reset?		

3.3.2 Description of the (IDNet) Scale menu block

(IDNet) Scale -> Display - Weighing unit

Unit 2	Select weighing unit 2: g, kg, oz, lb, t		
Unit roll	When unit roll is switched on, the weight value can be displayed in all available units with S.		
Notes	 In case of verified scales, individual sub-items of the Display menu item may not be available or only to a limited extent, depending on the respective country. On multi-range/multi-interval scales, the symbol I<->I with number indicates the current range or interval. 		

(IDNet) Scale -> Zero - Automatic zero update

AZM	On verified scales, this menu item does not appear.	
	Switching on/off automatic zero update	
	The effective range of the zero update mode (0.5 d; 1 d; 2 d; 3 d) can only be set by	
	service technician.	

(IDNet) Scale -> Tare - Tare function

Auto tare	Switching on/off automatic taring		
Chain tare	Switching on/off chain tare		
A-Clear tare	 Switching on/off automatic clearing of the tare weight when the load is removed from the scale. On The tare weight is automatically cleared if the gross weight is 0 or below zero Off No automatic clearing of the tare weight 9 d The tare weight is automatically cleared if the gross weight is within +/- 9 display steps 		

(IDNet) Scale -> Restart - Automatic saving of zero point and tare value

Restart	When the Restart function is activated, the last zero point and the tare value are saved.	
	After switching off/on or after a power interruption, the device continues to work with the	
	saved zero point and tare value.	

(IDNet) Scale -> Filter -Adaptation to the ambient conditions and the weighing type

Vibration	Adaptation to the ambient conditions		
Stable	• Very steady and stable environment. The scale works very rapidly, but is very sensitive to external influences.		
Normal	Normal environment. The scale operates at medium speed.		
Unstable	Restless environment. The scale works more slowly, but is insensitive to external influences.		
Process	Adaptation to the weighing process		
Finefill	Dispensing of liquid or powdered weighing samples.		
Universal	Universal setting for all weighing modes and normal weighing goods.		
Absolut	• For solid bodies under extreme conditions, e.g., strong vibrations.		
Stability	Adjusting stability monitoring		
$ASD = 0 \dots ASD = 4$	ASD = 0 Stability monitoring switched off Only possible for non-verified scales		
	ASD = 1 Rapid display Good reproducibility		
	ASD = 3 ↑ ↓ ASD = 4 Slow display Excellent reproducitility		

(IDNet) Scale -> Update - Setting the display speed of the weight display

This menu item is only displayed if the UPDATE function is supported by the connected scale.

XX UPS	Selecting the number of updates per second (UPS)	
Note	The possible settings depend on the connected scale	

(IDNet) Scale -> MinWeigh - Minimum weighing-in quantity

Before you can use this function, the METTLER TOLEDO service technician has to determine and enter a minimum weight value.

Function	Switching minimum weight function on/off	
	If the weight on the scale drops below the stored minimum weight, 🗳 appears in the	
	symbols and info line.	

(IDNet) Scale -> Reset - Resetting scale settings to factory settings

Perform reset ?	Confirmation inquiry	
	Reset the IDNet scale settings to factory settings with YES.	
	Do not reset the IDNet scale settings with NO.	

3.4 Application menu block

Factory settings are printed in **bold** in the following overviews

3.4.1 Overview

Level 1	Level 2	Level 3	Level 4	
Average	Off, Auto,	Manual		
Log files	Alibi Log	Activate		
		Item 7 Item 10 Delete all records	ID1, ID2, ID3, Dev. identifier, Dev. location, SNR Terminal, SNR Scale 1, SNR Scale 2, User name	
	Routine Test Log	Days External test Test weight, Weight name, Tolerance Internal test Delete all records		
Reset	Perform reset ?			

3.4.2 Description

Application -> Average -Determining the average weight for an unstable load (dynamic weighing)

Off	Calculating average weight switched off	
Auto	Calculating average weight with automatic start of the weighing cycle	
Manual Calculating average weight with manual start of the weighing cycle via 🗲		

Alibi Log	Setting up Alibi log file.		
Activate	If set to ON, all weighings are saved in a log file		
Item 7 Item 10	You can add additional information to that required by W & M regulations.Select item number.Assign the item contents.		
Delete all records	A safety prompt is displayed before deleting all stored alibi records.		
Routine Test Log	Setting up routine calibration test for your scale.		
Days	Enter interval of routine test		
External test	Test weightWeight nameTolerance	Enter the test weight value Enter weight name Enter tolerance for passing the routine calibration test	
Internal test	• Yes • No	for weighing platforms with an internal calibration weight for weighing platforms without an internal calibration weight	
Delete all records	A safety prompt is displayed before deleting all stored routine test records.		

Application -> Log files - Setting up log files

Application -> Reset - Resetting application settings to factory settings

Perform reset ?	Confirmation inquiry
	Reset the application settings to factory settings with YES.
	 Do not reset application settings with NO.

3.5 Terminal menu block

Overview

Factory settings are printed in **bold** in the following overview.

3.5.1 Level 1 Level 2 Level 3 Level 4 Level 5 Device Language English, German, French, Spanish, Italian, ... Sleep / Off, 1 minute, 3 minutes, 5 minutes, 15 minutes, Power off 30 minutes Default, 3-Line mode Display Layout Auxiliary Not used, Date & Time, Gross, Net, line Tare, High Resolution, ID1, ID2, ID3, 1 ... 3 Dev. identifier, Dev. location, User name Contrast 1 ... 10 1 ... 10 Brightness Backlight off, 5 seconds, 10 seconds, 30 seconds, 1 minute, **On** Weight hold **0 s** ... 10 s Colours Default Yellow, Light blue, colour, Darkblue (< MinWeigh), Red, Purple,</pre> Green, Orange, Light green, Pink, < MinWeigh white (Default colour) Colour mode Continuous, Stable Lock, Unlock Keyboard Key lock Power, Clear, UnitSwitch, Info. Transfer, OuickSelect Info key Item 1 Not used, Date & Time, Gross, . . . Net, Tare, HighRes & Net, Item 18 ID1, ID2, ID3, Dev. identifier, Dev. location, Dev. name, SNR Terminal, SNR Scale 1, Firmware Vers., User name Date & Time Format EU, US Date dd/mm/yyyy (EU), mm/dd/yyyy (US) Time hh:mm:ss Meridian AM, PM Calender On, **Off**

Level 1	Level 2	Level 3	Level 4	Level 5			
Device	Beeper	On, Off					
	Information	Identificatio	Identification, Location				
User management	Edit user	User 1 User 20	User name, User ID	Profile, Password, Language,			
	Activate	On, Off					
	Delete all						
	Delete Profile	User No. xx					
Access	Supervisor	Password					
Reset	Perform Rese	et ?					

3.5.2 Description of the Terminal menu block

Terminal -> Device - General device settings

Language Selecting the language of the operator interface Possible languages: English, German, French, Spanish, Italian, Chinese We will expand the available languages continuously.

Sleep (User access)	This menu item only appears on devices in mains operation. When Sleep is activated, the device switches off display and backlighting after the time period set when not in use and gross weight is 0. Display and backlighting are switched on again by pressing a key or if the weight changes. Possible settings: Off , 1 min, 3 min, 5 min, 15 min, 30 min (approximate values)
Power Off (User access)	This menu item only appears on devices in battery operation. When Power Off is activated, the device switches itself off automatically after the time period set when not in use. After this, it must be switched on again using \mathcal{O} . Possible settings: Off , 1 min, 3 min, 5 min, 15 min, 30 min (approximate values)

Display	Configuring the display window. For details see section 1.2.4			
Layout	Selecting the presentation of the weight value. Possible settings: Default, Big font mode, 3-Line mode			
Auxiliary line 1 Auxiliary line 3	Selecting the contents of the auxiliary display line.1. Select auxiliary line number.2. Assign contents to the selected line.			
Contrast (User access)	Setting the contrast of the display Possible settings: 1 10			
Brightness (User access)	Setting the brightness of the display Possible settings: 1 10			
Backlight (User access)	Setting whether and after which time the background lighting is to be switched off.Possible settings: Off (no background lighting), 5 sec, 10 sec, 30 sec, 1 min,On (background lighting always on), (approximate values)Factory setting AC versionOnFactory setting battery version5 sec			
Weight hold	Setting how long the weighing result is frozen in the display after the transfer key \Box has been pressed or auto print was generated. Possible settings: 0 s 10 s			
Colours	 Setting the display colour for default and/or weight < MinWeigh Select status. Assign colour to the selected status. 			
Colour mode	Setting the way of changing display colour• ContinuousChange in colour with stable or dynamic weight values• StableChange in colour only when the weight value is stable			

Keyboard	Switching keys on/off and setting info key			
Key lock	Selecting keys to lock/unlock Possible keys: Power (\mathcal{O}), Clear (\mathbf{C}), Unit switch (\mathbf{S}), Info (\mathbf{i}), Transfer (\mathbf{E}), Quick Select (\mathbf{E})			
Info key	 Setting up to 18 items to be displayed using the info key (<i>i</i>). Select the item to be configured (Item 1 Item 18). Assign contents. 			
Note	 If you want to lock the tare key (→T←) and/or the zero key (→0←) ask the METTLER TOLEDO service technician. Locked keys cannot be activated by the user, but the supervisor can still activate these keys by entering his password. 			

12/10

Date & Time	Setting date and time.
Format	Selecting date format. Possible settings: EU, US
Date	Setting date in the selected format: dd/mm/yyyy (EU) or mm/dd/yyyy (US)
Time	Setting time in the following format: hh:mm:ss
Meridian	For US format only: Setting AM/PM
Calender	Display a calender sheet in the right bottom edge of the display

Each keystroke is confirmed by a short beep.

Switching beeper on/off.

Beeper

Information	Entering device information to identify the device according to your company's naming conventions.			
Identification	Entering device identification			
Location	Entering device location			
Note	 This device information can be used as follows: to be displayed in the auxiliary lines of the display to be displayed via i to be printed/transferred together with the weight value 			
	In addition Device name provides the complete type information already entered in the factory, e.g., ICS629a-A15/t.			

Terminal -> User management

Edit User	Configuring user profiles.			
User 1 User 20	 User Name Profile Password Language User ID 	Enter user name, max. xx characters Assign profile: User or Supervisor Define password, max. xx characters Assign user language Define user ID, e.g., personnel number		
Activate	Activating/deactivating user management			
Delete all	Delete all user profiles			
Delete Profile	Selecting a single user profile to be deleted			

Terminal -> Access - Password for Supervisor menu access

Supervisor Password entry for Supervisor menu access.	
Password	Request to enter password. → Enter password.
Retype code	Request to repeat the password entry. → Enter password again.
Note	The password can consist of up to 6 characters.

Terminal -> Reset - Resetting terminal settings to factory settings

Perform reset ?	Confirmation inquiry		
	Reset the terminal settings to factory settings with YES.		
	• Do not reset terminal settings with NO .		

3.6

Communication menu block

For detailed information on interface protocols and commands refer to the following documents:

- SICS Reference manual
- MT continuous Reference manual

The Communication menu block consists of the following subblocks:

- COM 1 Parameter settings for the standard RS232 interface COM 1.
- COM 2 Parameter settings for the optional interface COM 2.
- COM 3 Parameter settings for the optional interface COM 3 (not for .../c version). The interfaces identify themselves. Therefore only those menu settings appear which are relevant for the individual interface. If no optional interface is installed, the COM 2 and COM 3 menus will not appear.
- Templates Define templates to be selected via COM x -> Printer -> Template.

Available interface settings / factory settings

		COM1	COM2/COM3				
		RS232	RS232	RS422/ RS485	Et her- net	USB	WLAN
Mode	Print	~	~	~	~	_	~
	Auto print	~	~	~	~	_	~
	Instant print	~	~	~	~	_	~
	Continuous 1)	~	~	~	~	~	~
	Dialog 1)	Factory setting	Factory setting	Factory setting	Factory setting	Factory setting	Factory setting
	External input	~	~	~	~	~	~
	Demand mode ²⁾	~	~	~	~	_	~
	Demand m auto ²⁾	~	~	~	~	_	~
	Contweight 2)	~	~	~	~	~	~
Printer	Printer		~	~	~	-	~
Destination		~	~	~	~	~	~
Parameter	Baud	9600	9600	9600	-	-	-
	Parity	8 none	8 none	8 none	_	-	-
	Handshake	~	~	~	-	-	-
	RS Type	-	-	~	-	-	-
	Net Address	_	_	~	_	_	_
	Checksum	~	~	~	~	_	~
	STX	~	~	~	~	_	~
	Print G	~	~	~	~	_	~
	Load resistor	-	-	~	_	-	-

¹⁾ for more information see Reference manual "MT-SICS for ICS4xx"

²⁾ for more information see Reference manual "MT-Demand and Continuous", not recommended for new installations

Level 1	Level 2	Level 3 Level 4				
Mode		print, Instant print, Continuous, Dialog, External input,				
	Demand mode,	, Demand m au	ito, ContWeight			
Printer	Туре	ASCII printe	er, Label printer, GA46 printer			
	Template	Standard, Te	emplate 1 Template 5			
	ACII Format	Line format	Multiple, Single, Fixed			
		Line length	1 24 100			
		Separator	. , : ; / \ Space			
		Expanded	On, Off			
		Add line	0 9			
		feed				
Destination	Off , Tare p	reset, ID1, ID2, ID3, User ID				
Parameter	Baud	300, 600,, 57600, 115200				
	Parity	7 none, 8 none, 7 odd, 8 odd, 7 even, 8 even				
	Handshake	Off, Xon - Xoff				
	RS Type	RS422 , RS485				
	Net Address	0 31				

Overview RS232 / RS422 / RS485 menu blocks (COM 1 / COM 2 / COM 3)

Checksum

Print G

resistor

Perform reset ?

STX

Load

Reset

12/10

On, **Off**

On, **Off**

On, **Off**

On, **Off**

3.6.2

3.6.3 Description of the RS232 / RS422 / RS485 menu blocks (COM 1 / COM 2 / COM 3)

Communication \rightarrow COM x \rightarrow Mode \rightarrow Operating mode of the serial interface

Print	Manual data output to the printer with $lace{}$
Auto print	Automatic output of stable results to the printer (e.g., for series weighing operations)
Instant print	Immediate manual data output to the printer with \square (not verifiable)
Continuous	Ongoing output of all weight values via the interface
Dialog	Bi-directional communication via MT-SICS commands, control of the device via PC
External input	Input other than via terminal keypad. What the input is used for is defined in the Destination menu block
Demand mode	Manual data transmission with \square
Demand m auto	Automatic transmission of stable results (e.g., for series weighing operations)
ContWeight	TOLEDO Continuous mode
Note	 Printing conditions for Auto print and Demand m auto: The weight must be heavier than 9 display increments. A weight change of at least 9 display increments is required to initiate the next printout

Communication \rightarrow COM x \rightarrow Printer – Settings for protocol printout

Туре	Selecting printer type out of the following: ASCII printer , Label printer, GA46 printer
	Note If Label printer is selected, the transmitted data does not include the name of the variable, e.g., Date, Gross, ID1, but the value and, if apropriate, the unit as a separate line. This allows the label printer to fill its template with the required data.
Template	Selecting protocol printout. Possible settings: Standard , Template 1 Template 5
ASCII Format	Selecting formats for the protocol printout.
Line format	 Selecting line format out of the following: Multiple (multiple lines) Single (single line) Fixed (Records are output in single lines. Every record encompasses the number of characters that was defined under Line length).
Line length	Setting line length. Possible settings: 0 to100 characters Factory setting: 24 characters This item is only displayed for the line formats Multiple and Fixed.
Separator	Selecting the separator: Possible settings: , ; . : / $\ _$ - and space This item is only displayed for the line format single.
Expanded	Printout with bigger font size on METTLER TOLEDO printers.
Add line feed	Adding linefeeds. Possible settings: 0 9

Communication \rightarrow COM x \rightarrow Destination - Destination for barcode input

None	Input destination is not predefined. The input will be shown on the display, you can decide what to do with the input.
Tare preset	Input via barcode is recognised as tare preset.
ID1, ID2, ID3	Input via barcode is recognised as ID1 resp. ID2.
User ID	Input via barcode is recognised as user ID.

12/10

Baud	Selecting baud rate Possible settings: 300, 600, 1200, 2400, 4800, 9600 , 19200, 38400, 57600, 115200
Parity	Selecting parity Possible settings: 7 none, 8 none , 7 odd, 8 odd, 7 even, 8 even
Handshake	Selecting handshake Possible settings: Off , Xon-Xoff
RS Type	Selecting type of the optional RS422/RS485 interface: RS422 or RS485
Net Address	Assigning network address: 0 31, only for RS485
Checksum	Activating/deactivating checksum byte
STX	Activating/deactivating STX If STX is enabled, the STX signal (0x02) is sent at the beginning of each output string that is sent via the interface.
Print G	This functionality can only be enabled if one of the Demand mode templates is selected. If it is enabled, the gross weight is marked with "G". Examples Print G enabled, no tare: 2.001_kg_G Print G disabled, no tare 2.001_kg Print G enabled, tare active: 2.025_kg_G2.000_kg_T0.025_kg_NET Print G disabled, tare active: 2.025_kg2.000_kg_T0.025_kg_NET
Load resistor	Only for the optional RS422/RS485 interface To avoid reflexions on a network, we recommend to make a defined termination. To this purpose the load resistor within the terminal can be used. When set to "On", a resistor of approx. 100 Ω between the signal lines is enabled

Communication \rightarrow COM x \rightarrow Reset COM x \rightarrow Resetting communication settings to factory settings

Perform reset ?	Confirmation inquiry
	Reset the communication settings to factory settings with YES.
	 Do not reset communication settings with NO.

	3.6.4 Digital I/O menu block	
Level 1	Level 2	Level 3
Input	Input pin 1 Input pin 4	Off , Zero, Tare, Transfer, Switch, Clear, Info
Output	<pre>Ready, Stable, Tare, Zero, < MinWeigh, >= MinWeigh, Underload, Overload, <= Setpoint 1, > Setpoint 1, <= Setpoint 2, > Setpoint 2, Star</pre>	Off , Output Pin 1 Output Pin 4
Setpoints	Setpoint 1, Setpoint 2	
Output mode	Continuous, Stable	
Reset Digital I/O	Perform reset ?	

COM x (Digital I/O) -> Input/Output - Configuring inputs/outputs

Configuring inputs

- 1. Select an input pin.
- 2. Assign an input signal to the selected input pin.

Configuring outputs

- 1. Select an output signal.
- 2. Assign an output pin.

COM x (Digital I/O) -> Setpoints - Entering values

Setpoint 1	Enter value for setpoint 1
Setpoint 2	Enter value for setpoint 2

COM x (Digital I/O) -> Output Mode - Behaviour of the digital outputs

Continuous	Digital outputs are updated continuously
Stable	Digital ouputs are updated only when the weight is stable

COM x (Digital I/O) -> Reset COM x -Resetting communication settings to factory settings

Perform reset ?	Confirmation inquiry
	Reset the Digital I/O settings to factory settings with YES.
	 Do not reset Digital I/O settings with NO.

12/10

3.6.5

Ethernet menu block

Item	Reference
Mode	
Printer	See RS232 / RS422 / RS485 menu blocks
Destination	
Parameter	
DHCP	If DHCP is set to "On", the device will receive the IP address automatically. Then IP address, Subnet mask and Gateway are read- only fields
IP address	Enter/display IP address
Subnet mask	Enter/display Subnet address
Gateway	Enter/display Gateway address
Reset Ethernet	See RS232 / RS422 / RS485 menu blocks

3.6.6

USB menu block

Item	Reference
Mode	
Destination	
Checksum	See RS232 / RS422 / RS485 menu blocks
STX	
Reset USB	

3.6.7 WLAN menu block		
Level 1	Level 2 Level 3	
Mode		
Printer	- See RS232 / RS422 / RS485 menu blocks.	
Destination		
Parameter		
IP address	Enter IP address.	
Subnet mask	Enter Subnet address.	
Gateway	Enter Gateway address.	
Wireless	SSID	Enter SSID
settings	Encryption	Off , WEP, WPA
	WEP Settings	64 Bit, 128 Bit
	WEP key	Key 1, Key 4
	WPA Settings	WPA-TKIP, WPA2-AES
	Password	Enter password
Status	Display the current status, e.g., connection status, signal strength.	
Reset COM	See RS232 / RS422 / RS485 menu blocks.	

	3.6.8	Templates menu block	
Level 1	Level 2	Level 3	
Template 1	Line 1	Not used, Header, Date, Time, Gross, Net, Tare,	
		High resolution, ID1, ID2, ID3, Dev. identifier,	
Template 5	Line 15	Dev. location, SNR Terminal, SNR Scale 1, User name,	
		Star line, New line, Form feed	

Configuring templates

- 1. Select a template.
- 2. Select the line to be configured.
- 3. Assign the line contents.
- Ť

The header can be specified via SICS command I31, see Reference manual "MT-SICS for ICS6xx".

12/10

	3.7 Maintenance menu block	
Test Scale	S V	esting the scale Scales with an analog interface will offer the test procedure described below. Scales with an IDNet interface and an internal calibration weight perform an automatic calibration check.
Settings in the	3	 The scale checks the zero point. -0 - appears in the display. The test weight value flashes in the display. If necessary, change the weight value displayed using →T Put the test weight on the scale and confirm with □→. The scale checks the test weight. After the test is completed, the deviation from the last calibration briefly appears in the display, ideally *d=0.0g, after which the device changes to the next menu item.

Keyboard Test	Keyboard test	
Start ?	 Press → to start the keyboard test. Press the keys in the displayed order. If the key works, the device switches to the next key. 	

Display Test	Display test	
Start ?	 Press → to start the display test. A checkerboard pattern in various colour combinations is displayed. Press O to leave the display test. The display works properly if the bright and dark fields are displayed without missing pixels. 	

Serial number	Display of the serial numbers	
Start ?	 Press ⊡>. The serial numbers of the weighing terminal and the active weighing platform are displayed. Press ^U to leave the item. 	

Print Setup	Printout of a list of all menu settings	
Start ?	 Press →. A safety prompt is displayed. Press → again to start printing. 	

Reset All	Reset all settings to factory settings	
	 Confirmation inquiry Reset all settings to factory settings with YES. Do not reset settings with NO. 	

4.1

Quick Select menu overview

The Quick Select menu offers access to logout, routine test and several log files, depending on your configuration.

→ Press

The following menu is displayed.

Quick Select			
Menu Log out Routine test Routine Test Log Alibi Log Calibration log			

The example shows the Quick Select menu with the maximum of configurable items.

4.2 Entering main menu

→ In weighing mode press \blacksquare and then \Box . The main menu is displayed without a long key press.

Logout

4.3

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Prerequisite

✓ User management is activated under Terminal -> User Management.

• Logout is described in the Operation chapter.

• Always log out when leaving the terminal in order to prevent unauthorised persons from working on it.

4.4 Performing routine test

By performing a routine test you can check the calibration of your scale regularly.

Prerequisite

✓ Routine test parameters are set under Application -> Log files.

If an interval for the routine test is defined (Days > 0), the device automatically asks you to perform the routine test.

With external weight

- 1. Unload the scale.
- 2. Select Routine Test in the Quick Select menu using the cursor keys \wedge / \vee and confirm with \square .
 - You are asked to put the indicated weight on the platform.
- When the required weight is put on the platform, press □>.
 The routine test is carried out and the following test protocol is displayed for a short time:

Routine test			
	Routine test passed!		
Rec. no.:	9		
Date & Time:	08/07/2010 13:58:50		
User name:	ABC		
Test weight:	1.50 kg		
Weight name:	- WI		
Tolerance:	0.10 kg		
Result:	1.58 kg		
Deviation:	0.00 kg		
Deviation:	0.00 kg		

With internal weight

4.5

- 1. Unload scale.
- 2. Select Routine Test in the Quick Select menu using the cursor keys \wedge / \vee and confirm with \square .

The routine test is carried out and the following test protocol is displayed for a short time.

Routine test			
Rou	itine test passed!		
Rec.no.:	9		
Date & Time:	08/07/2010 13:58:50		
User name:	ABC		
Test weight:	Internal weight		
Weight name:	W1		
Tolerance:	n/a		
Result:	n/a		
Deviation:	n/a		

- The results of the routine test are stored in the routine test log file.
- If the determined weight is not within the tolerance, test protocol is in red. Call the METTLER TOLEDO service technician.
- If an external test weight is defined, an external routine test is performed directly after the internal routine test.

Calling up routine test log file

Prerequisite

✓ Routine test parameters are set under Application -> Log files.

Viewing routine test log file

- 1. Select Routine Test Log in the Quick Select menu using the cursor keys \wedge / \vee and confirm with \Box .
 - The routine test protocol of the last routine test is displayed.

Routine test passed!			
0002	Rec. no.:	11	
0003	Date & Time:	21/07/2010 15:01:52	
0004	User name:	Richard Lebherz	
0005	Test weight:	1.00 kg	
0006	Weight name:	A	
0007	Tolerance:	0.01 kg	
0008	Result:	1.00 kg	
0009	Deviation:	0.00 kg	
0010			
0011			

2. To view other routine test protocols use the cursor keys \wedge / \vee .

Printing routine test log file

- 1. When a routine test record is displayed, press \Box .
- 2. In the next screen select either Print selected record to print a single record or Print whole memory to print all records.
- Confirm selection with □→.
 The routine test log record(s) is(are) printed.

Deleting routine test log file

Deleting routine test log files is carried out in the menu under Application -> Log files -> Routine Test Log.

4.6 Calling up alibi log file

Prerequisite

✓ Alibi Log is activated under Application -> Log files.

Viewing alibi records

1. Select Alibi Log in the Quick Select menu using the cursor keys \land / \lor and confirm with \square .

The alibi record of the last weighing operation is displayed.

Alibi log												
000 008	Rec. no.:	000 017										
000 009	Date & Time:	28/87/2010	13:27:41									
000 010	Net:	5.48 kg										
000 011	Tare:	0.00 kg										
000 012	Gross:	5.48 kg										
000 013	Scale number:	1										
000 014												
000 015												
000 016												
000 017												

2. To view other alibi records use the cursor keys $\wedge \, / \, \vee.$

Printing alibi log file

- 1. When an alibi record is displayed, press \Box .
 - In the next screen you are given the following choice:
 - Print selected record
 - Print whole memory
 - Print today's records
 - Print records by number
 - Print records by date
- 2. Select the desired printing mode using the cursor keys \wedge / \vee and confirm with \Box .
- If Print records by number Or Print records by date is selected, you are asked to enter start and end number respectively start and end date.

The selected alibi record(s) is(are) printed.

12/10

Searching alibi records

- 1. When an alibi record is displayed, press i.
- 2. In the next screen use S to select the search criterion either Search by date or Search by rec. no (record number) and confirm with \square .
- 3. Enter record number resp. date of the alibi record(s) you are looking for and confirm with \square .

The desired alibi record(s) is(are) displayed.

Deleting alibi log files

Deleting alibi log files is carried out in the menu under Application -> Log files -> Alibi Log.

4.7 Calling up calibration log file

For analog scales the results of calibration procedures are stored in the calibration log file.

Viewing calibration log file

1. Select Calibration Log in the Quick Select menu using the cursor keys \wedge/\vee and confirm with $\square >$.

The calibration record of the last calibration is displayed.

Calibration passed!										
001	Rec. no.:	1								
002	Date & Time:	20/07/2010 12:04:18								
003	User name:									
004	Test weight:	60.00kg								
005	Weight name:									
006	Scale number:	1								
007	Comments:									
008										
009										
010										

2. To view other calibration records use the cursor keys \wedge / \vee .

Printing calibration records

- 1. When a calibration record is displayed, press \Box .
- 2. In the next screen select either Print selected record to print a single record or Print whole memory to print all records.
- Confirm selection with □>.
 The calibration record(s) is(are) printed.

5 Event and error messages

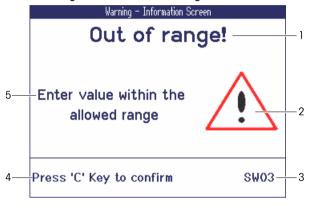
Error	Cause	Remedy
Display dark	Backlighting set too dark	→ Set backlighting brighter.
	No mains voltage	→ Check mains.
	Unit switched off	→ Switch on unit.
	Mains cable not plugged in	→ Plug in mains cable.
	Brief fault	→ Switch device off and on again.
Weight display unstable	Restless installation location	→ Adjust vibration adapter.
	Draft	→ Avoid draft.
	Restless weighing sample	→ Dynamic weighing.
	Contact between weighing pan and/or weighing sample and surroundings	→ Remedy contact.
	Mains fault	→ Check mains.
Incorrect weight display	Incorrect zeroing	→ Unload scale, set to zero and repeat weighing operation.
	Incorrect tare value	→ Clear tare.
	Contact between weighing pan and/or weighing sample and surroundings	→ Remedy contact.
	Weighing platform tilted	→ Level weighing platform.
[]	Load plate not on the scaleWeighing range not reached	 → Place load plate on the scale. → Set to zero.
[]	Weighing range exceeded	 → Unload scale. → Reduce preload.
	Result not yet stable	→ If necessary, adjust vibration adapter.
"Attention: Approval invalid" alternating with metrological data	Approval was tampered with	→ Call METTLER TOLEDO service technician.

5.1 Error conditions

5.2 Errors and warnings

5.2.1 Error messages

Error messages contain the following information:



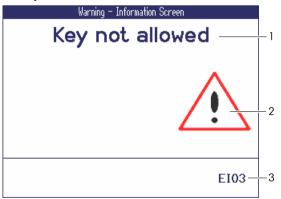
- 1 Error message
- 2 Warning symbol
- 3 Message identifier
- 4 How to clear the message
- 5 Remedy

5.2.2

Warnings

Warnings are displayed briefly and then disappear automatically.

Example

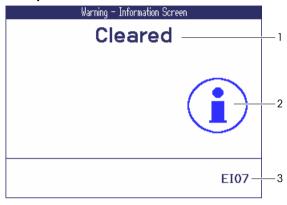


- 1 Warning
- 2 Warning symbol
- 3 Warning identifier

5.2.3 Information

Information screens are displayed briefly and then disappear automatically.

Example



- 1 Info message
- 2 Info symbol
- 3 Info identifier

12/10

5.3 Smart weighing counter / spanner icon

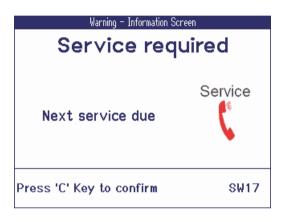
This weighing instrument features several control functions to monitor the condition of the device.

The METTLER TOLEDO service technician can setup and enable these functions.

This helps the user and the METTLER TOLEDO service technician to detemine how the device is treated and what measures are needed to keep it in a good shape.

If the control functions triggers an alert, a message is shown.

You can confirm the message and continue to work with the weighing instrument. The spanner icon Σ lights up.



In case of an alert we strongly recommend calling the METTLER TOLEDO service technician

- to replace parts which are at the end of lifetime,
- to correct wrong settings,
- to educate operators about proper handling,
- to perform routine service work,
- to reset the alert.

The control functions monitor the following conditions:

- number of weighings
- number of overloads
- maximum weight
- zero commands and zero failures
- battery charging cycles
- power-on time
- date for the next service inspection

Technical data and accessories

Technical data weighing terminal

Housing	Stainless steel 1.4301 or AISI 304								
Display	 Color TFT graphical display, with backlighting Size: 115 x 85 mm / 320 x 240 pixels 								
Keyboard	Tactile-touch membrane keypadScratch-resistant labelling								
Protection type	 Terminal IP68/IP69k Standard weighing platform IP68/IP69k Weighing platform with option load cell with KS+ coating IP68/IP69k 								
Net weight	 Terminal 1CS629a/c 2.3 kg / 5.1 lb 3.6 kg / 7.9 lb + weight of the weighing platform 								
Mains connection	 Direct connection to power supply (supply voltage fluctuation not exceeding ±10 % of the rated voltage) Rated voltage 100 240 VAC / 50 60 Hz / 300 mA 								
Storage battery operation	 Supply of device: 12 V = / 2.5 A If the supply voltage is interrupted, the device automatically switches over to storage battery operation 								
Battery charger	• Ambient conditions: 0 40 °C / 32 104 °F, dry environment								
Ambient conditions	 Application indoor use only Altitude up to 2,000 m Temperature range Class III -10 40 °C / 14 104 °F Temperature range Class II 0 40 °C / 32 104 °F Overvoltage category II Pollution degree 2 Humidity: Max. rel. humidity 80 % for temperatures up to 31 °C, decreasing linearly to 50 % rel. humidity at 40 °C 								
Interfaces	 1 interface RS232 integrated ICS629a/c: 1 additional optional communication interface possible ICS629a/d, ICS629a/f, ICS629a/t 2 additional optional communication interfaces possible 1 additional scale interface possible 								
W & M approvals	OIML Class II, III, IIII NTEP Class II, III								

6.1

6

Applications and features

- Weighing
- Average weighing
- Alibi log file
- Routine test function
- Calibration log file
- User management

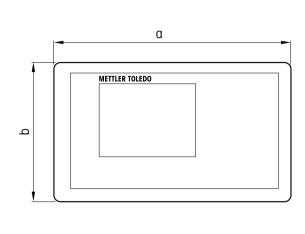
Operating life with storage battery

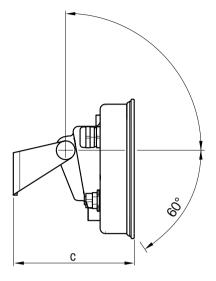
The operating life during storage battery operation differs depending on the intensity of use, the configuration and the connected scale.

The following approximate values apply with standard RS232 interface and the brightness set to 5.

Weighing platform	Conditions	Duration
With 1 strain gauge weighing cell,	10 % operation, 90 % power-off mode	150 h
e.g., ICS629a-A15	Continuous operation	15 h
With 4 strain gauge weighing	10 % operation, 90 % power-off mode	120 h
cells, e.g., a floor scale	Continuous operation	12 h
K line weighing platforms	10 % operation, 90 % power-off mode	60 h
	Continuous operation	6 h

Dimensional drawing





Dimension	[mm]	["]				
α	260	10.24				
b	170	6.70				
C	114	4.49				

6.2

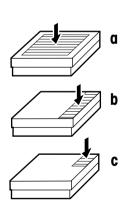
Technical data weighing platforms

- The size of the weighing platform (A, BB, B, BC, CC, QB, QC) is indicated at the end of the product name, e.g., ICS629a-A6.
- Other combinations of weighing range and readability can be adjusted by the METTLER TOLEDO service technician on site.
- The table below indicates the factory settings of weighing range and readability.

Weighing ranges and readability (factory setting)

	Settings in kg / g		Settings in Ib					
Model	Range	Readability	Range	Readability				
A3	1.5 kg / 3 kg	0.5 g / 1 g	2.5 lb / 5 lb	0.0005 lb / 0.001 lb				
A6, QA6	3 kg / 6 kg	1g/2g	5 lb / 10 lb	0.001 lb / 0.002 lb				
A15, QB15	6 kg / 15 kg	2 g / 5 g 10 lb / 25 lb		0.002 lb / 0.005 lb				
BB30, B30, QB30	15 kg / 30 kg	5g/10g	25 lb / 50 lb	0.005 lb / 0.01 lb				
BB60, B60, BC60, CC60, QB60, QC60	30 kg / 60 kg	10 g / 20 g	50 lb / 100 lb	0.01 lb / 0.02 lb				
BC150, B150, CC150, QC150	60 kg / 150 kg	20 g / 50 g	100 lb / 250 lb	0.02 lb / 0.05 lb				
BC300, CC300	150 kg / 300 kg	50 g / 100 g	250 lb / 500 lb	0.05 lb / 0.1 lb				
CC600	300 kg / 600 kg	100 g / 200 g	500 lb / 1000 lb	0.1 lb / 0.2 lb				

Operation limits – maximum static safe load



Model	a – center load	b – side load	c – corner load				
A	30 kg / 60 lb	20 kg / 40 lb	10 kg / 20 lb				
BB	100 kg / 200 lb	70 kg / 140 lb	35 kg / 70 lb				
В	200 kg / 400 lb	140 kg / 280 lb	75 kg / 150 lb				
BC	400 kg / 800 lb	300 kg / 600 lb	150 kg / 300 lb				
CC	700 kg / 1400 lb	400 kg / 800 lb	200 kg / 400 lb				
QA	15 kg / 30 lb	10 kg / 20 lb	5 kg / 10 lb				
QB	100 kg / 200 lb	70 kg / 140 lb	35 kg / 70 lb				
QC	200 kg / 400 lb	140 kg / 280 lb	75 kg / 150 lb				

Weights, approx. values

Model	Weight in kg	Weight in Ib
A	5.2	11.5
BB	7.4	16.3
В	12.7	28.0
BC	26.5	58.4
CC	35.0	77.2
QA	4.1	9.0
QB	7.8	17.2
QC	13.1	28.9

Length of load cell cable for ICS629a-.../t

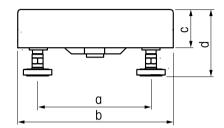
Weighing range	Length in m	Length in ft				
up to 30 kg / 50 lb	1.5	5				
60 kg / 100 lb and higher	2.5	8				

Dimensional drawings

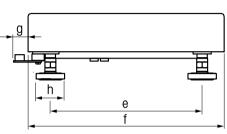
The size of the weighing platform (A, BB, B, BC, CC, QB) is indicated at the end of the product name, e.g., ICS629a-**A**6.

Weighing platform

Front view



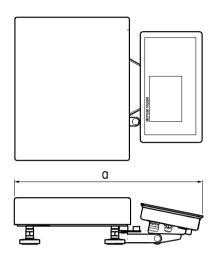
Side view



	A		BB		В		В	BC		сс		QA		QB		C
Dim.	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]
a	175	6.89	235	9.25	335	13.19	435	17.13	503	19.80	170	6.69	233	917	392	15.43
b	240	9.45	300	11.81	400	15.75	500	19.69	600	23.62	229	9.02	305	12.01	457	17.99
C	56	2.20	57	2.24	57	2.24	70	2.76	79	3.11	56	2.20	57	2.24	60	2.36
d	95	3.74	97	3.82	100	3.94	108	4.25	130	5.12	95	3.74	108	4.25	100	3.94
е	235	9.25	335	13.19	435	17.13	587	23.11	724	28.50	170	6.69	245	9.65	397	15.63
f	300	11.81	400	15.75	500	19.69	650	25.59	800	31.50	229	9.02	305	12.01	457	17.99
g	22	0.87	15	0.59	15	0.59	15	0.59	21	0.83	22	0.87	15	0.59	15	0.59
h					Circle	e diamet	er: 30 n	nm / 1.1	8"; diag	jonal: 34	1 mm / 1	.34"				

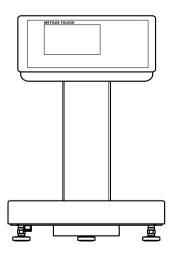
* min. height = d, max. height = d + 15 mm / d + 0.59"

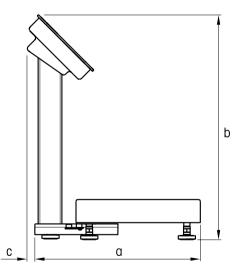
ICS629a-.../f



	A		BB		В		BC		CC		QA		QB		QC	
Dim.	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]
a	418	16.46	485	19.09	581	22.87	681	26.81	772	30.39	407	16.02	489	19.25	640	25.10

ICS629a-.../c





	A		В	В	E	3	В	С	С	С	Q	A	Q	В	Q	C
Dim.	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]	[mm]	["]
۵	337	13.27	404	15.91	500	19.69	600	23.62	691	27.2	326	12.83	408	16.06	559	22.01
b	412 mm / 16.22"															
C	34 mm / 1.34"															

6.3 Accessories

Printers	Order no.
GA46 printer, RS232, incl. 8-pin M12 plug	
2.5 m cable	22 019 925
0.4 m cable	22 019 926
Retrofitable interfaces (conversion kits)	Order no.
Kit must be fitted by a METTLER TOLEDO service technician	
RS232 conversion kit	
terminal version	22 012 112
/c version	22 012 117
RS422/RS485 conversion kit	
terminal version	22 012 113
/c version	22 012 118
Ethernet conversion kit	
terminal version	22 012 114
/c version	22 012 119
USB Device conversion kit	
terminal version	22 012 115
/c version	22 012 120
Digital I/O conversion kit, 4 outputs and 4 inputs	
terminal version	22 012 116
/c version	22 012 121
WLAN conversion kit	
terminal version	22 012 126
/c version	22 012 127
Plugs	Order no.
RS232 counter plug, 8 pin M12	22 021 105
RS485 counter plug, 6 pin M12	22 021 106
Ethernet counter plug, 4 pin, Coding D, M12	22 021 107
USB counter plug, 4 pin, Coding A, M12	22 021 108

Cables (always delivered with 90° angled M12 plug)	Order no.
RS232 cable for SICS scale, 8 pin M12 <-> 9 pin sub D plug, 3 m $$	22 021 088
RS232 cable for PC, 8 pin M12 <-> 9 pin sub D receptacle, 3 m	22 021 087
RS422/RS485 cable, 6 pin M12 <-> open ends, 3 m	22 021 089
Ethernet 10/100 Base T twisted pair cable, 4 pin M12 Coding D <-> RJ45	
5 m	22 021 090
20 m	22 021 091
USB adapter cable, 4 pin M12 Coding A <-> USB series A receptacle 0.2 m 5 m	22 021 122 22 021 123
USB cable, connection to PC, 4 pin M12 Coding A <> USB series A plug, 3 m	22 021 092
USB cable, connection to USB devices, 4 pin M12 Coding A <-> USB series B plug, 3 m	22 021 124
Cable to connect Digital I/O option with Relay box, 12 pin M12 <-> open ends, 10 m	22 021 093
I/O accessories	Order no.
Relay box for Digital I/O option	22 011 967
Power supply for Relay box 4 (110–230 VAC)	00 505 544
Adapters *	Order no.
RS232 adapter, 8 pin M12 plug <-> 8 pin Binder receptacle, 0.2 m	22 021 094
RS485 adapter, 6 pin M12 plug <-> 6 pin Binder receptacle, 0.2 m	22 021 095
Ethernet adapter, 4 pin Coding D M12 plug <-> 16 pin Binder receptacle, 0.2 m	22 021 096
USB adapter, 4 pin Coding A M12 plug <-> 16 pin Binder receptacle, 0.2 m	22 021 097
Digital I/O adapter, 12 pin M12 plug <> 19 pin Binder receptacle, 0.2 m	22 021 098

* Use already installed cables/plugs with our new ICS6x9 M12 plug

Mechanical parts	Order no.
Protective cover for terminals ICS6x9, set of 3 pieces	22 021 110
Stand ICS6x9, height 50 mm	22 018 057
Stand ICS6x9, for PBA430 weighing platform height 330 mm height 660 mm	22 013 964 22 013 965
Stand ICS6x9 for KA, KB, MA, MB and DB platforms, height 330 mm	22 014 836
Bench stand ICS6x9 for scale bench 00503632 or 00504854, height 500 mm	22 014 835
Floor stand ICS6x9, height 1000 mm	22 014 834
Standbase for floor stand	22 011 982
Wall bracket ICS6x9, inclinable and swivelling	22 014 833
Desk mounting plate, for teminal and/t version only	22 021 111

7.1 Tests for utilisation in hygienically sensitive areas

ICS629 weighing terminals have been assessed by the EHEDG (European Hygienic Engineering and Design Group) and the NSF (National Sanitation Foundation). Both institutes certify the fulfilment of the hygienic requirements for easy cleaning (Hygienic Design Criteria).

EHEDG The EHEDG is an association of device manufacturers, firms in the foodstuff industry, research institutes and health autohorities. It was founded in 1989 with the aim of promoting the hygienically faultless manufacturing and packaging of foodstuffs. A positive expertise of the device by the EHEDG has taken place. A corresponding report is available on the internet under www.mt.com.

NSF NSF is an independent NGO founded in 1944 in the USA. Corresponding regulations were published for the use of devices in the foodstuff industry. The device fulfils the NSF cfriteria C-2 (Special Equipment and/or Devices) for use in the foodstuff industry.

The products are listed on the NSF site: www.nsf.org.



Notice for verified instruments in EC countries



Weighing instruments verified at the place of manufacture bear the preceding mark on the packing label and a green "M" sticker on the descriptive plate. They may be set to work immediately.

Weighing instruments which are verified in two steps have no green "M" on the descriptive plate and bear the preceding identification mark on the packing label. The second step of the verification must be carried out by the approved METTLER TOLEDO service or Weights and Measures authorities. Please contact your METTLER TOLEDO organisation. The first step of the verification has been carried out at the manufacturing plant.

If national regulations in individual countries limit the period of validity of the verification, the operator of such a weighing instrument is himself responsible for its timely re-verification.

7.3 Tables of Geo Code values

For weighing instruments verified at the manufacturer's, the Geo Code value indicates the country or geographical zone for which the instrument is verified. The Geo Code value set in the instrument (e.g. "Geo 18") appears briefly after switching on.

Table "Geo Code values 3000e" shows the Geo Code values for European countries. Table "Geo Code values 6000e/7500e" shows the Geo Code values for different gravitation zones.

	7.3.1 Geo C	code values 3000e,			
Country	Geographical latitude	Geo Code value	Country	Geographical latitude	Geo Code v
Austria	46°22′ – 49°01′	18	Liechtenstein	47°03′ – 47°14′	18
Belgium	49°30′ – 51°30′	21	Lithuania	53°54′ – 56°24′	22
Bulgaria	41°41′ – 44°13′	16	Luxemburg	49°27′ – 50°11′	20
Croatia	42°24′ – 46°32′	18	Netherlands	50°46′ – 53°32′	21
Czechia	48°34′ – 51°03′	20	Norway	57°57′ – 64°00′	24*
Denmark	54°34′ – 57°45′	23		64°00′ – 71°11′	26
Estonia	57°30′ – 59°40′	24	Poland	49°00′ – 54°30′	21
Finland	59°48′ – 64°00′	25*	Portugal	36°58′ – 42°10′	15
	64°00′ – 70°05′	26	Romania	43°37′ – 48°15′	18
France	41°20′ – 45°00′	17	Slovakia	47°44′ – 49°46′	19
	45°00′ – 51°00′	19*	Slovenia	45°26′ – 46°35′	18
Germany	47°00′ – 55°00′	20	Spain	36°00′ – 43°47′	15
Greece	34°48′ – 41°45′	15	Sweden	55°20′ – 62°00′	24*
Hungary	45°45′ – 48°35′	19		62°00′ – 69°04′	26
Iceland	63°17′ – 67°09′	26	Switzerland	45°49′ – 47°49′	18
Ireland	51°05′ – 55°05′	22	Turkey	35°51′ – 42°06′	16
Italy	35°47′ – 47°05′	17	United Kingdom	49°00′ – 55°00′	21*
Latvia	55°30′ – 58°04′	23		55°00′ – 62°00′	23

7.3.1 Geo Code values 3000e, OIML Class III (European Countries)

* factory setting

Geo Code values 6000e/75000e OIML Class III (Height \leq 1000 m)					
Geographical latitude	Geo Code value		Geographical latitude		
00°00′ – 12°44′	18		43°26′ – 47°51′		
05°46′ – 17°10′	21		45°38' – 50°06'		
12°44′ – 20°45′	16	-	47°51′ – 52°22′		
17°10′ – 23°54′	18		50°06′ – 54°41′		
20°45′ – 26°45′	20		52°22′ – 57°04′		
23°54′ – 29°25′	23		54°41′ – 59°32′		
26°45′ – 31°56′	24		57°04′ – 62°09′		
29°25′ – 34°21′	25*, 26		59°32′ – 64°55′		
31°56′ – 36°41′	17, 19*		62°09′ – 67°57′		
34°21′ – 38°58′	20		64°55′ – 71°21′		
36°41′ – 41°12′	15		67°57′ – 75°24′		
38°58′ – 43°26′	19		71°21′ – 80°56′		
41°12′ – 45°38′	26		75°24′ – 90°00′		

Geographical latitude	Geo Code value
43°26′ – 47°51′	18
45°38' - 50°06'	22
47°51′ – 52°22′	20
50°06′ – 54°41′	21
52°22' – 57°04'	24*, 26
54°41′ – 59°32′	21
57°04′ – 62°09′	15
59°32′ – 64°55′	18
62°09′ – 67°57′	19
64°55′ – 71°21′	18
67°57′ – 75°24′	15
71°21′ – 80°56′	24*, 26
75°24′ – 90°00′	18

* factory setting



Disposal

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

Please dispose of this product in accordance with local regulations at the collecting point specified for electrical and electronic equipment.

If you have any questions, please contact the responsible authority or the distributor from which you purchased this device.

Should this device be passed on to other parties (for private or professional use), the content of this regulation must also be related.

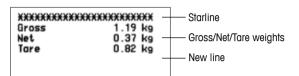
Thank you for your contribution to environmental protection.

7.3.2

Protocol printouts

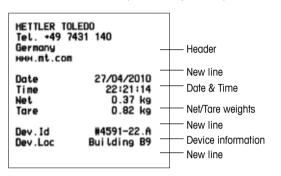
GA46 printouts, in English

Straight weighing

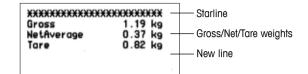


Printout with header (standard printout)

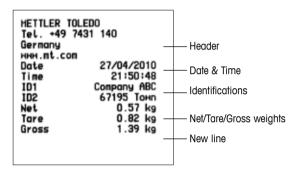
7.5



Average weighing



Printout with header and identification data



Appendix

.

A ۸

Accessories 68	8
Alibi log 13, 36, 5	5
Alphanumeric entry 1	1
Average weighing 21, 33	ō

В

Barcode	
Destination	45
Identification	21
Tare preset	20
Battery	
Handling	15
Specification	61
Beeper	40

С

Calendar 40
Calibration log14
Cleaning 23
Commissioning 14
Connections 12

D

Date 40
Device information
Display8
3-line mode 8
Backlighting 39
Bargraph 8, 20
Brightness 39
Calendar8
Capacity available 8, 20
Colours
Contrast
Default layout 8
Metrological data9
Presentation in the menu 27
Symbols and info line 10
Weight display9
Disposal 73
Dynamic weighing 21, 35

Ε

Environment
Errors 58
Error conditions 57
Error messages58

G

Geo value 17, 25, 72

I

Identifications,	21
Info key,	22
Information	59
Interface settings	41
Digital I/O	47
Ethernet	48
RS232	43
RS422 / RS485	43
USB	48
WLAN	49

Κ

Keyboard	11
Key lock	39

L

Log files
Alibi log file 55
Routine test log file 54, 55
Login/logout17

Μ

Menu
Access 41
Application 35
Communication 41
Maintenance 50
Operation 26
Password 26, 41
Quick Select 52
Scale (analog) 29
Scale (IDNet) 32
Terminal

Messages 58 MinWeigh 32, 34 Mode Demand mode 44 Dialog mode 44 Print mode 44 MT continous 41

0

Options	7,	65
Output mode		47

P

38
15, 61
22
74
49

Q

Quick Select	
Alibi log file	55
Enter main menu	52
Logout	52
Routine test 53, 54,	55

R

Routine test, 13, 53, 54, 36

S

Safety instructions	
	-
Command set 4	I.
Identifications 2	1
Tare preset 2	0
Simple weighing 1	8
Sleep mode 3	8
Smart weighing counter 6	0
Spanner icon 8, 6	0
Switching on and off 1	7

Т

Tare
Automatic clearing 19, 31, 33
Automatic taring 19, 31, 33
Chain tare 19, 31, 33
Tare preset 20
Taring18
Technical data
Weighing platforms 64
Weighing terminal61
Terminal and platform
combinations 6, 64
Test
Display 50
Keyboard 50
Scale 50
Verification 25
Time 40

U

User management...... 13, 40

V

Verified instruments in EC	
countries	71

W

Warnings			•															•		•		•			•		5	8	3
----------	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	---	--	---	--	---	--	--	---	--	---	---	---

Ζ

Zero	
Automatic zero update. 31, 3	33
Zeroing	18
Zero point correction	18

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