

Brief Instructions

Sartorius Cubis Series

Electronic Precision and Analytical Balances MSA Models



98648-017-07

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These **brief instructions** will help familiarize you with operation of the balance, introduce to you the Q-Guide operating concept and offer you examples of how to perform simple tasks.

The user manual additionally contains:

- Safety precautions
- Description of all operating processes
- Description of all applications
- Cleaning and care instructions
- Maintenance and repair instructions

- Information on disposal
- Technical data



The enclosed CD-ROM contains the user manual as a PDF file. To read and print the file, you require the program Acrobat Reader, which you can download for free from the Adobe website (www.adobe.com).

Software drivers for configuration of USB interfaces can also be downloaded from the internet:

http://www.ftdichip.com/FTDrivers.htm

The installation guides for these drivers can be found here:

http://www.ftdichip.com/Documents/ InstallGuides.htm 广州市授科仪器科技有限公司 sokelf.matiGram.user

Notes on Using this Manual

- ▶ Please read these entire instructions carefully before using the balance.
- ▶ Please ensure that you read the safety precautions carefully.
- ▶ This manual is considered a part of the product. Keep this manual in a safe and easily accessible location.
- If the manual should be lost or misplaced, please contact Sartorius for a replacement or download the latest manual from our website: www.sartorius.com

Symbols and Signs

The following symbols are used in these instructions:

\land	Warning symbol for various types of dangers. This symbol is explained in more detail in the section on safety precautions.
0	This symbol indicates useful information and tips.
Μ	This symbol indicates notes on use of the balance in legal metrology.
Im	The hand symbol indicates operating steps that involve touchscreen controls.
(🔒)	This symbol means that the USER key should be pressed.
(This symbol means that the TASK key should be pressed.
Next	When individual buttons are displayed, they should be pressed.

- Indicates a required action
- \triangleright Describes the result of an action
- 1. If a procedure has multiple steps...
- 2. ... the steps are numbered consecutively.
- Indicates an item in a list

Additional Documents

In addition to this manual ("Brief Instructions"), a set of installation instructions is included in printed form with the Cubis balance, and full operating instructions are included as a PDF file on the enclosed CD-ROM.



Technical advice / hotline: Telephone: +49.551.308.4440 Fax: +49.551.308.4449

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Safety Instructions

The balance/scale has been constructed in accordance with the European Directives as well as international regulations and standards for operation of electrical equipment, electromagnetic compatibility and applicable safety requirements. However, improper use or handling can result in damage and/or injury.

The equipment may only be operated by trained personnel. Operators must read these installation instructions, particularly the safety instructions, and must be familiar with the operation of the equipment. The operator must supplement these warnings and safety precautions if necessary and train operating personnel accordingly.



Before operating the balance, be sure to read the section on safety instructions in the enclosed installation manual.



Sharp or pointed instruments (such as ballpoint pens) can damage the device. Use only your fingertips and press gently to operate touchscreen controls.

Intended Use

Cubis models are fine precision balances with high-resolution. They were specially developed for exact determination of the mass of materials in liquid, paste, powder or solid form.

Suitable containers must be used to hold the materials. The maximum balance capacity depending on the model ranges from 0.01 mg (smallest mass determination) to 12.0 kg (largest mass determination).

Cubis models are designed specially for use in research, education and day-to-day laboratory tasks in science, technology and industry.

They are designed to be used exclusively indoors. Cubis models can be operated standalone, connected to a PC or in a network.

Operation

Turning the Balance On and Off

- Make sure the balance has been installed and put into operation in accordance with the installation instructions.
- (\bigcirc) Press the on/off key (\bigcirc) on the control unit.



On subsequent starts, the most recently active user profile and task are opened (if at least one user profile has been set up).

If prompted, level the balance (see "Level the balance" for details).

To put the balance in standby mode or switch it off, press the key (\bigcirc).

Close the draft shield (if present on your model).

Q-Guide Operating Concept

The Cubis precision and analytical balances are controlled by application software with interactive operator guidance. Once you open a menu or select an application, brief instructions shown on the display will guide you through the menu or application step-by-step. At each step along the way, the display shows only those options that are relevant to your process; this helps prevent unnecessary "detours" and enables you to reach your goal more quickly.

Although operation of the balance is for the most part intuitive, this manual includes a section with very detailed, step-by-step instructions where you can learn about all of the available options (see "Creating User Profiles" in the chapter entitled "User Management").

Basic Operational Structure

The most basic functions, weighing and taring, can be carried out as soon as the balance is switched on. The application software is divided into three general areas in which individual settings can be configured:

l at	Simple Weighing				
Configurec factory	(☵) TASK Task Management (from page 11) Select application, start		(≗) USER User Management (from page 30) Select user		
ired by er	Configure application Configure task		Create a user profile		
Configu	System Settings (from page 23)				

The **Task Management** area under **(TASK)** incorporates numerous preconfigured applications that can be selected and executed directly. For more complex requirements, separate tasks can be configured as needed.

The **User Management** area under **(USER)** lets you set up user profiles with specific sets of configuration settings and user rights. You can also set up password protection to meet your security requirements.

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If you do not require the user management features, simply leave this area unconfigured; the balance can be operated without defining any users. The **System Settings** area **(Menu)** contains all basic settings and parameters that affect the entire operation of the balance.

The Wizard

In some menus, you can switch between two types of display:



In the Overview, all parameters with configured options are listed; you can select each individual option to change its setting.

Wizard

If you activate the Wizard in the same menu, the program guides you forward **in steps**: The individual parameters and their options are then displayed in sequence.

Use of the Display and Control Unit



Operating Keys:

(000)	TASK key: Opens the Task Management menu for selecting applications and configuring tasks. You can also press the TASK key from this menu at any time to switch to the operating mode.
(0)	USER key: Opens the User Management menu, where user settings can be configured. You can also press the USER key from this menu at any time to switch to the operating mode.
(·	TARE	∎)	TARE keys (left and right): Tares the balance.
(Ð)	PRINT key: Prints the measurement results currently displayed or an application-specific printout.
(\bigcirc)	On/off key: Switches on/off and into standby.
	•		Keys for operating the electronic draft shield (optional)

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Setting Up the Display and Control Unit

You can adjust the angle of the tiltable display and control unit as desired to ensure optimal readability in every situation. The color and brightness settings can also be adapted to the prevailing lighting conditions (see "User Management" and "System Settings" for details).

Inserting a Memory Card in the Display and Control Unit

You can copy data, such as application data or user profiles, to an SD memory card. This is a quick and easy method of transferring settings between balances. The slot for the SD card is located on the back of the display and control unit.



- 1. Tilt the control unit towards you until it is almost vertical.
- 2. Lift the cover of the card slot. Hold the card with the metal contacts facing towards you.
- 3. Push the card into the slot as far as it will go.
- \triangleright The card snaps into place.
- ► To remove the card, push it in and then release. The card will pop out for easy removal.
- 4. Press on the position lock and tilt the control unit back to the desired position.

Quick Start: First Weighing Operation

- (\bigcirc) Push the on/off key to switch the balance on.
 - Close the draft shield (if present on your model).
- (TARE) **>** Push the TARE key to tare the balance.
 - ▷ When the balance has been tared, the readout will show a zero value.
 - Open the draft shield (if applicable) and carefully place the sample on the weighing pan (in a suitable container).
 - Close the draft shield (if present on your model).
 - Once the readout has stabilized and the unit of measurement is displayed, you can read off the measurement value.

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Touchscreen User Interface

Many of the operating steps involve use of the touchscreen. The layout of the display depends on whether the application software is in operating mode or whether a menu is open (configuration mode).

Display in Operating Mode



- Function area: Shows the active application (here: step 1 of 2) 1 Press this area to view a description of the application.
- 2 Line for metrology data with weighing capacity (left) and reading precision (resolution) of the balance.
- 3 Value area with the current measured value
- 4 Area for status messages and alerts (see below)
- 5 Task area with instructions on how to proceed
- 6 Operating bar: Shows the controls currently available
- 7 User info area: Displays the current user, date and time Press in this area to display a description of the user.
- Scaled display of measured value (percentage of weighing capacity utilization) 8

Status Messages and Alerts

The following messages may be shown here: isoCAL isoCAL shown continuously: isoCAL function active (extended temperature range) isoCAL flashing: Calibration/adjustment required



Level flashing: Balance not level, leveling required

Print: Printout is active; print job not yet completed

GLP: GLP-compliant printing is active (includes header)

SQmin: SQmin value is shown if the weight value is less than SQmin

U or U* or PA: The selected DKD value (measurement uncertainty) is shown





- 1 Interactive area with instructions on how to proceed
- 2 Orientation line: Shows the current menu level
- 3 Selection area: Shows available options
- 4 Operating bar: Shows the controls currently available
- 5 Symbol indicating which menu (Task, User or Setup) is currently open
- 6 Scroll bar for scrolling through selection area

Using the Touchscreen



Sharp or pointed instruments (such as ballpoint pens) can damage the device. Use only your fingertips and press gently to operate touchscreen controls.



All **operating elements** on the touchscreen are depicted in a light color with a shadowed, 3-D-effect. Press a button gently to activate the corresponding function.

Selecting a single option: If only one of several options can be selected, simply press the corresponding button and the program continues to the next step auto-

>	Basic Weighing
	Counting
	Weighing in Percent

Counting

Impor

matically.

Selecting multiple options: If several options can be selected, press the checkbox next to each desired option; a checkmark indicates that the option has been selected. To remove a checkmark, press the box again.

To continue to the next program step, press Next.

In some instances you will need to use the **scroll bar** to see all the available options. To do this, either place your fingertip on the dark blue part of the scroll and slide it up or down or press the "up" and "down" arrow buttons.





Chang	ge pro	ofile n	ame	here i	if des	ired:			ů
								N	AM <mark>E</mark>
Q	w	E	R	т	Y	U	Ι	0	P
Α	S	DU	m	G	Η	J	К	L	*
Z	X	C	\mathbb{P}	В	N	М	;	:	
				◀	►				
Back A/a/1#/äx					(ж			

Entering Letters and Numbers

When alphanumerical input is required, a keypad is shown on the touchscreen. A cursor is shown in the input line above the keypad.

- Press the desired character to enter it.
- ▷ The characters are shown in the input line as they are entered.

<u>А</u>/а/1#/äж



Press the **Shift button** to change the input mode between uppercase letters, lowercase letters, numbers and the complete character set with special characters.

Press the Backspace button to delete the character to the left of the cursor.

Press on the input line to change the cursor mode. The cursor now marks a character you can overwrite directly.

Press on the input line again to return the cursor to the "Insert" mode so that you can add a character.



The two **arrow buttons** move the cursor one character to the left or right.

Press **Back** to cancel the input and go back one step to the last screen.

Press **OK** to end the input and save your entry.

Activating or Changing Users

In the operating mode, the active user is displayed in the user info area in the upper right-hand corner of the display. To activate a different user, open the User Management menu.

- $(\bigcirc$) \blacktriangleright Press the key USER $(\bigcirc$).
 - ▷ The available users are listed. The currently active user is indicated by an arrow and a darker background.
 - Press the button indicating the user you wish to activate.
 - ▷ The program returns to the operating mode, the selected user is logged in with the corresponding rights.
 - Pressing Start will activate the currently selected user.

Р	lease select User:		â
	User		
Þ	Administrator Administrator		
	PTA Meier User with all Rights	la	
	User 2 User description 2	~~~	
	LogOut Sort.	Edit	Start

广州市授科仪器科技有限公司 soke 17 matic Office User

Task Management

In the Task Management menu (TASK), you can:

- Start a task
- Configure a new task
- Edit an existing task (change, copy, delete).

Numerous **applications** are available to you for configuring a **task**, such as weighing, part counting, calculating. Every task contains at least one of these applications, but it can also comprise a combination of multiple applications. You can use applications with the settings configured at the factory or edit the settings for your own requirements and preferences. The application **Weighing** is present as a basic function for every task.

Which options are available to a given user in the Task Management depends on that user's rights: **Administrators** have access to all options, while normal **users** have only limited access (see "User Administration" in the chapter "User Management"). If no users have been defined, the Administrator is automatically active.

Global tasks can be accessed by all users, while **local tasks** are available only to the users who create them. Exception: A user can copy global tasks, with or without modification, to use as a basis for local tasks.

Option	Administrator	User
Configure, change, delete local tasks		\square
Configure, change, delete global tasks	\square	
Execute, copy local tasks		\square
Execute, copy global tasks	\square	\square

(🚍) 🕨 To enter the Task Management, press the key **TASK** (🚊).

The available tasks are listed as touchscreen buttons. When the balance is delivered, this overview is empty. Only after tasks have been configured are they displayed here.

Press Start to start the currently selected task (identifiable based on the darker background).

P	lease select Task:
	Task
Þ	Weighing
	Density.Pyknometer Density Determination
	Weighing Basic Weighing
۷	Veighing Sort. Edit Start

Task Management 市授科仪器科技有限公司 soke17.com

Using Applications with Factory Settings

All applications are prepared at the factory with certain configuration settings. If you wish to use the factory settings, you can use the quick method for configuring a task:

Open the Task Management and press Edit

Select Create

- ▷ The list of applications is displayed.
- Select the application you wish to use in the new task.
- Press Done.
- Enter a name and a description for the task and press **Save**.
- ▷ The new task is stored with the factory-set application configuration and added to the task list.

Sorting the Task List

New tasks are always added to the end of the task list. Once you have configured a number of tasks, you may find it helpful to sort the list.

- \triangleright Open the task list.
- Press Sort.

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Sort.

- ▷ The tasks are listed in alphabetical order (A Z).
- ► To reverse the sort order, press **Sort** again.
- ▶ To sort the tasks by the date of the last use, press **Sort** once more.

Configuring a New Task

The software in your Cubis balance includes the following applications, which you can configure as tasks according to your requirements and preferences:

- Basic Weighing
- SQmin Function
- Density Determination
- Calculation
- Formulation
- Timer-Controlled Functions
- DKD Measurement Uncertainty
- Counting

- Mass Unit Conversion
- Individual Identifiers
- Statistics
- Averaging
- Weighing in Percent
- Totalizing
- Second Tare Memory (Manual Tare)
 - Checkweighing



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Edit

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The basic process for configuring a task is:

- 1. Create a new task.
- 2. Select an application.
- **3.** Work through all subsequent prompts and configure your own values for the respective parameters, if desired.
- **4.** Perform steps 2 and 3 for additional applications if you would like to combine multiple applications.
- **5.** Check the general parameters (weighing parameters and printout parameters) for the new task, and change them if necessary.
- 6. Enter the name and description for the new task.
- 7. Save the task.



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A detailed description of how to combine tasks as well as an overview of the combination possibilities can be found in the user manual on the included CD-ROM.

Task Management 市授科仪器科技有限公司 soke17.com

(🚊) Edit



Example: Creating a Task

- ▶ Open the Task Management and press Edit.
- \triangleright The list of options is displayed.
- ► To define a new task, press Create a new Task profile.

- Please select an application function

 Task > New > App.Func. 1

 > Basic Weighing

 Counting

 Weighing in Percent

 Animal Weighing

 Calculation

 Back

 Done
 - ▷ The list of applications is displayed.
 - ▶ Use the scroll bar on the right-hand side to view all applications.
 - Select the application you wish to use in the new task.
 - Configure the application as desired. The program automatically guides you through the configuration procedure.
 - Configure additional applications for the task, if desired.
 - After configuring all applications for the new task, two more prompts follow: Weighing parameters and printout parameters. All settings configured here affect only the new task.

If the balance is verified for use in legal metrology, some of the options for modifying parameters may be hidden or limited.

Weighing Parameters Prompt

Check the settings and modify them as needed.

Explanations of the individual options can be found in the **System Settings** chapter in the section **Device parameters**.

Press Next.

Printout Parameters Prompt.

▶ Check the settings and modify them as needed.

Explanations of the individual options can be found in the **System Settings** chapter in the section **Device parameters**.

Press Next.

Please check the task specific weighing parameters:					
Task • Nev	w 🕨 Weighing	g ► Overview			
Adapt filte	r:	Stable	conditions		
Application	n filter:	Final re	adout		
Stability ra	inge:	2 digits	;		
Stability de	elay:	Short d	lelay		
Zero/tare function: After stabil.					
Back	Wizard		Done	Next	

Please check the task specific printout parameters:					
Task ► Nev	w 🕨 Print Fot.	 Overview 			
Print interf	ace:	COM A			
Output pro	otocol:	Print Fo	Print Fct.		
Default GL	.P printout:	Always	Always on		
Tare after	printing:	Off	Off		
Print event	t	Prt.key			
Back	Wizard		Done	Next	

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Save

- Enter a short name and a description for the new task.
- Press Save.
- \triangleright The task list is then shown and now includes the new task.

Executing a Task

Once your tasks have been configured, you can select and execute a task.

- Switch to Task Management, if you have not already done so.
- \triangleright The task list is displayed.
- Press the button for the desired task.
- or
- If the desired task is already selected (dark background and arrow on left), press Start.
- ▷ The program switches to the operating mode, and the selected task is activated.
- ▶ Follow the instructions on the display.



In this brief instruction manual, we only describe the applications **Weighing** and **Density Determination**. For complete descriptions of all applications, please refer to the full user manual on the included CD-ROM.



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絀市授科仪器科技有限公司 soke17.com Task Manag

Weighing

Purpose:

Edit

Combination options:

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Determination of the weight within the framework of the device-specific weighing range (see Technical Data). SQmin Function, DKD Measurement Uncertainty, Mass Unit Conversion, Second

Tare Memory and Individual Identifiers. Task Configuration: Weighing

- You cannot combine any other applications with this task.
- \triangleright The prompt for general weighing parameters is presented.
- Check all the settings and modify them as needed.

- The prompt for general printout parameters is presented. \triangleright Check all the settings and modify them as needed.
- ► Enter a short name and a description for the new task.
- To save the new task, press **Save**.

Task Execution: Weighing

- Switch to Task Management, if you have not already done so.
- \triangleright The task list is displayed.
- Press the button for the desired task.
- If the desired task is already selected, press Start.
- or
- Press Weighing.
- The program switches to the operating mode, and the task is activated. \triangleright Follow the instructions on the display.

create a new rask prome				
Basic Weighing				
Please check the density determination				
Task ► New ► Density ► Ov	erview			
Density method:	Density of liquid			
Air density corr.:	Air density at 20	°C/68		
Vol. of glass plummet:	10.000 cm3			
Decimal places:	1 dec. place			
Printout: All data				
Back Wizard Done Next				
Please select the correct	tion for air density	: ≋≣		
Task ► New ► Density ► Air	density corr.			
Standard air buoyancy				
User input				





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广州市授科仪器科技有限公司 soke17 mask Management

Density Determination

Purpose: Combination options:

Prerequisites:

You can determine the density and volume of liquid, solid or paste-like substances. Checkweighing, Timer-Controlled Functions, Totalizing, Statistics, SQmin Function, DKD Measurement Uncertainty, Second Tare Memory or Individual Identifiers. In order to perform a density determination, you must have the Sartorius Density Determination Kit YDK01MS or similar kit. The bases for calculation applied in

density determination are described in the user manual on the included CD-ROM.

There are **four methods** of density determination to choose from:

- Determining density of liquid (with glass plummet)
- Determining density based on buoyancy with the Sartorius Density Determination Kit YDK01 (for solids)
- Determining density based on displacement (for solids)
- Determining density with a pycnometer (for liquid, pasty and powdered samples)



The bases for calculation applied in density determination are described in the user manual on the included CD-ROM.

Task Configuration: Determining the density of a liquid with glass plummet



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E	inter the	volume of 1	the glass pl	ummet:	0		Enter the vo
	• App.	Func. 1 🕨 Den	sity > Wizard	l ► Vol. of qla	ss plummet		
	Vol. of gla	ss plummet:	Pl.vol	10.00			
	Back	Overview		Info	Next		
5	elect de	imal places:	for the rea	sult	8E		Select the n
	Task ► Ne	w 🕨 Density 🖡	Decimal plac	es			
	No decir	nal places					
Þ	1 decim	al place					
	2 decim	al places					
	3 decim	al places					
	4 decim	al places)		
Г							
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_							
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F	Please ch paramete Task • Ne	eck the den rs: w • Density •	sity detern Overview	nination	0= 0=		Review your ding button
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F	Please chi paramete Task ► Ne Density m Air densit	eck the den rs: w ► Density ■ ethod: y corr:	sity detern Overview Density Air der	nination y of liquid nsity at 20	°C/68		Review your ding button
F	Please ch parameter Task ► Ne Density m Air densit Vol. of gla	eck the den rs: w ► Density ► ethod: y corr.: ss plummet:	sity detern Overview Density Air der 10.000	nination y of liquid nsity at 20 cm3	°C/68	•	Review your ding button
F	Please ch parameter Task • Ne Density m Air densit Vol. of gla Decimal pl	eck the den rs: w ⊧ Density ⊧ ethod: y corr.: ss plummet: aces:	Sity determ Overview Density Air der 10.000 1 dec.	nination y of liquid nsity at 20 cm3 place	°C/68		Review your ding button
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	Please chi parametei Task ► Ne Density m Air densit Vol. of gla Decimal pi Printout: Back Combine Task ► Ne No furtt Checkw Timer-C Totalizir	eck the den rs: w Density ethod: y corr.: ss plummet: aces: Wizard the applicati w App.Func- her applicati eighing ontrolled Func-	Sity determ Overview Air der 10.000 1 dec. All data an with and 2.2 on function	nination y of liquid nsity at 20 cm3 place a Done other funct	Image: Control of the second secon	► 6	Review your ding button Select Ho f Options for on the inclu
F	Please chi harametei Task ► Ne Density m Air densit Vol. of gla Decimal pl Printout: Back Combine Task ► Ne No furtt Checkw Timer-C Totalizin	eck the den rs: w Density ethod: y corr.: ss plummet: aces: Wizard the applicati w App.Func- her applicati eighing ontrolled Func- ss	overview Density Air der In.000 I dec. All data ion with and 2 2 on function	nination y of liquid nsity at 20 cm3 place a Done	0:1 °C/68 •C/68 •C/68 </th <th>► •</th> <th>Review your ding button Select No f Options for on the inclu</th>	► •	Review your ding button Select No f Options for on the inclu
	Please chi harametei Task ► Ne Density m Air densit Vol. of gla Decimal pl Printout: Back Combine Task ► Ne No furtt Checkw Timer-C Totalizin Statistic	eck the den rs: w Density ethod: y corr.: ss plummet: aces: Wizard the applicati w AppFunct ner applicati eighing ontrolled Functions ss	overview Overview Air der 10.000 1 dec. All data on with and t. 2	nination y of liquid nsity at 20 cm3 place a Done other funct	Image: Control of the second secon	► 6	Review your ding button Select Ho f Options for on the inclu

Enter the volume of the glass plummet.

Select the number of decimal places to be given in the analysis results.

• Review your settings in the overview. To change a setting, press the corresponding button.

Select No further application function

Options for combining applications are described in detail in the user manual on the included CD-ROM.

Task Configuration: Determining the Density of a Solid

Two methods are available for determining the density of solids: **Buoyancy** or **Displacement**.

Select a density determination method: 000000000000000000000000000000000000	Select the method you wish to use in your task: Buoyancy or Displacement.
Back OVERVIE Info Next Please select your density kit: □□□ Task ▶ New ▶ Density ▶ Density kit □□□ YDK-xxx density kit from Sartorius □□ Other density kit, no correction □	 Select the density determination kit you will be using. YDK density kit from Sartorius: For analysis with the YDK kit. Other density kit: If you would like to use a different kit No density kit, no correction: If you are not using a kit. Enter values as prompted (see below for details).
Back OVERVIE Info Next *Water: Ethanol: User input: Density at 20 °C/68 °F and exp. coefficient:	Input Prompts/Settings for the YDK01MS Sartorius Density Determination Kit and for Density Determination Without a Kit *= Factory Settings Liquid For determining density relative to water For determining density relative to ethanol For density determination relative to a different liquid; enter both the liquid and its density at the indicated temperature. For density determination relative to a different liquid; enter the liquid, its density at 20 °C/68 °F and the expansion coefficient. The density at the indicated tempera- ture is calculated automatically.
*Air density at 20 °C/68 °F: User input:	Air Density For analysis under standard laboratory conditions For analysis under other conditions; enter the air density. Number of Decimal Places
No decimal places: 1, *2, 3 or 4 places:	The analysis result is displayed without decimal places. The analysis result is displayed with the selected number of decimal places.
No printout *All results and parameters	Print Output The results of the measurement are not printed. The results of the measurement and all configured parameters are printed.
Name: Number of wires: Wire diameter: Vessel diameter:	Input Prompts/Settings for Other Density Determination Kit Parameters for the Density Kit Enter the name of the kit Enter the number of wires in the density kit Enter the diameter of the wires in mm Enter the diameter of the vessel in mm All other prompts are the same as those for the Sartorius density kit (see above).

Task Management 市授科仪器科技有限公司 soke17.com

(ミ☴) Edit			
Create			
Density Determination			
Select a density determination method:			
► New ► App.Func. 1 ► Density ► Wizard ► Density method			
Determ. density of liquid (w/ glass plummet)			
Buoyancy (solid samples)			
Displacement (solid samples)			
Pycnometer (liquid, pasty, powdered samples)			
Back Overview Info Next			

Task Configuration: Determining Density with a Pycnometer

- Select the **Pycnometer** method.
- The subsequent prompts are the same as those described above for the Sartorius density kit.

Task Execution: Determining Density

- Prepare the density determination kit you wish to use.
- Switch to the application menu, if you have not already done so.
- \triangleright The task list is displayed.
- Select the desired task.

(📰)

- Press Start to begin the task.
- \triangleright The program switches to operating mode.
- ▶ Follow the instructions on the display.



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Calibration and Adjustment

Background During **calibration**, a test weight is used to determine how much the displayed value differs from the value actually measured by the balance. This difference is compared to a predefined nominal mass value and is eliminated by subsequent adjustment. During linearization, the difference of the values from the ideal characteristic curve of the balance is compensated.

When to calibrate Calibration and adjustment should be performed **regularly**, such as daily after switching on the balance. Also calibrate after every leveling and whenever the ambient conditions have changed (temperature, humidity or air pressure) and when the balance is set up in a new location.

> isoCAL is an automatic calibration function built in to every Cubis balance. You can modify this function for adaptation to your own requirements.

You also have the option of setting up a reminder function that prompts for calibration/adjustment at user-defined intervals.



The process may differ depending on the presets (see System Settings / Weighing Parameters) for the calibration/adjustment function. The procedure described below uses the default factory settings.

Calibration/Adjustment with Built-in Calibration Weight

- Switch to the operating mode, if necessary.
- Make certain that the weighing pan is empty.
- Press CAL.



PTA Meier 29/10/2008 15:36:54

d = 0.001 g

g 100%

Weighing

isoCAL

Tare the balance

Max 620 o

0% =



Press Internal calibration and then Start.

Calibration and Alijusmen 授科仪器科技有限公司 soke17. com



- ▷ The procedure is executed; progress is shown on the display.
- Wait until the calibration/adjustment has been completed.
- ▷ When the procedure has ended, the selection list is shown again.
- Press Back to return the balance to the operating mode.

Calibration/Adjustment with External Calibration Weight

This function requires an external calibration weight. Please note the tolerance of the calibration weight you use.

- Switch to the operating mode, if necessary.
- Make certain that the weighing pan is empty.
- Press CAL.

Press Ext.cal./adj.; factory-def.wt. followed by Start
 As soon as you are prompted to do so, lay the calibration weight on the balance.

- The procedure is executed; progress is shown on the display.
 Wait until the calibration/adjustment has been completed (approximately 15 seconds).
- When the procedure has ended, the selection list is shown again.
 Press Back to return the balance to the operating mode.



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Weighing



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System Settings (Menu)



All of the settings that directly affect use of the balance are configured in this menu. These are basic settings; changes are effective as soon as they are stored. Changed settings do not affect already defined tasks.

Example: You can define the default values presented in the user menu when a new user profile is created. If you specify a certain color as the default (such as your company color), this setting will be preset upon creation of a user profile but can still be individually changed. This will not change already existing user profiles.



All system settings are user-independent; in other words, they are applied to all users.

To open the System Settings menu, press the Menu button while in operating mode.



Please select the menu item:		Þ
Menu		
Timer controlled functions		
Device information		
Device parameters		
Import/export data		
Service		•
Back	Lang.	

- ▷ The list of available system settings is displayed.
- ▶ To see all menu items, use the scroll bar on the right-hand side.
- Press the menu item for the settings you wish to edit.

The system settings are divided into the following six menus:

- Level the balance
- Calibration/adjustment data
- Timer controlled action
- Device information
- Device parameters
- Import/export data
- Service

You have already learned how to use the menus. Only the configuration options and their meanings are described below.

System Settings 市授科仪器科技有限公司 soke17.com

Level the balance (Q-Level)

For precise weighing results, it is essential that the balance be completely level. Any slight unevenness of the surface on which the balance rests can be compensated for by adjusting the front feet of the balance. All Cubis balances are equipped with the automatic leveling function **Q-Level**. An integrated sensor detects the alignment of the balance and generates a warning if leveling is required.

Level me

The leveling must be performed as soon as the message **Level me** appears in the display. This can be done very quickly thanks to the simple user guidance.

- Menu
 Level the balance
 Please follow the instructions to level the
 balance.
 Menu + Level the balance
 Please turn each foot in the
 direction of the arrow as shown
 until the red level icon is
 centered and turns green.
 Back Next
- Menu

 Calibration/adjustment data

 Please check the calibration/adjustment parameters:

 Menu • CalAdjust

 > Calibration/adjustment function parameter

 User defined ext. cal./adj. weight parameter

 User defined ext. lin. weight parameter

 isoCal parameter

 Back
 Next



	Menu		
Þ	Calibratio	n/adjustment function parameter	
	User def	ined ext. lin. weight parameter	

Make certain that the weighing pan is empty.Follow the instructions on the display.

Calibration/adjustment data

- The configuration options are divided into four areas.
- Select the area in which you would like to configure settings.
- ▶ Follow the instructions on the display.
- ▷ As soon as all options have been configured, the overview of all settings is displayed.
- To save the settings, press **Save**.

Defining Calibration and Adjustment Functions

Defining Functions of the CAL button. Options: Lock the button/*Configure the button selection menu/Select fixed 1-button function.

Defining the Selection Menu of the CAL button. Which calibration/adjustment functions should be offered after pressing the CAL button.

Selecting the Sequence for Calibration/Adjustment. Options: *Calibration and then automatic adjustment/Calibration and then manual adjustment. **Selecting the Unit for Calibration/Adjustment**. Options: *Grams/kilograms.

Defining External Calibration Weights

Defining the Number of External Calibration Weights.

Entering the Data for External Calibration Weights. Weight value / identifier / certificate

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Defining External Linearization Weights Entering the Data for External Linearization Weights. Weight values / identifier / certificate

Configuring the Fully Automatic Adjustment Function isoCAL

Defining the isoCAL Function. Disabled/only warning stage, manual initiation/ *enabled, automatic execution

Defining the isoCAL warning stage. *Only isoCAL status field/warning message, repeated/ alarm message, adjustment mandatory.

Setting the isoCAL Temperature. Enter the temperature in degrees Celsius. **Setting the isoCAL Time Interval**. Enter time interval in hours.

Timer controlled action

Menu
Timer controlled action
Please select the menu item:
Menu ► Device parameters
Balance parameters
Print configuration settings
Date/Time
Properties of display and control unit
Touchscreen adjustment
Back

Menu
Device information
Please select the menu item:
Menu Device information
Display device information
Service information/hotline
Calibration/adjustment data
View error log file
View Alibi data
Back

Menu

Device information

Balance parameters

Device information

Here you can view various information and search directly within the Alibi memory.Select the area in which you would like to view information.

Viewing Basic Information

▲ ▲

SQminDKD

Version

Displaying the manufacturer, model, serial number, host name, IP address

- ► To view the parameters for SQmin and DKD, press **SQminDKD**.
- ► To view the version of the balance, display and control unit and application software, press **Version**.



Menu
Device information
Service information/hotline
Menu
Device information
Calibration/adjustment data
Menu
Device information
View error log file
Menu

1

Device information

View Alibi data

Information about Technical Service and the Hotline

Contact data for the technical service center, the hotline number and information about the maintenance contract and maintenance cycle are displayed here.

Viewing Calibration and Adjustment Data

Viewing Error Messages in the Log File

All error messages are saved in the log file. You can view these here.

Alibi Memory

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The Alibi memory records weighing results without changing any characteristics of the data. This is why it can take the place of a data printer. The Alibi memory uses a ring buffer technique: when the memory is full, the oldest

data records are deleted to make room for new data. You can define a storage period if desired (default: 3 months; see "Device Configuration" for details). The Alibi memory can contain approximately 100,000 data records. For further information on the Alibi memory, please refer to the user manual.

Search in the Alibi memory. You can search the Alibi memory according to various search criteria: Date, time/memory number/memory ID

Browse Alibi memory. You can search the Alibi memory by paging through the entries with the arrow buttons.

Alibi Memory Browser					
Menu 🕨 De	vice informa	tion 🕨	/iew Alibi	data 🕨 Br	owse
Date :		2008-11	-21		
Time :		14:01	1:55		15
N	0.005	g	G	0.0	05 g
T 0.000 g T1 0.000 g T2 0.000 g					
Back	K	<	<	~	×

View available memory Select this option to see how much capacity is available in Alibi memory.

Menu Device parameters Please select the menu item: Ø Menu > Device parameters Balance parameters Balance parameters Print configuration settings Date/Time Properties of display and control unit Touchscreen adjustment Touchscreen adjustment

Device parameters

Here you can edit the device configuration settings for the balance. These settings are user-independent. 广州市授科仪器科技有限公司 soke17. Scontings

Menu	
Device parameters	
Balance parameters	
General weighing settings	

Defining Balance Properties

General weighing settings: Here you can define the default settings for the general device parameters. These settings can be changed within specific tasks when a new task is configured.

The factory settings are indicated with *.

Adapt filter: This setting defines the measuring time of the balance to filter out the effects of unfavorable weighing conditions such as drafts or vibration. Options: Very stable/*stable/unstable/very unstable conditions

Application filter: Compensates for load fluctuations in the display. Options: *Final readout/filling mode/low filtering/without filtering

Stability: The stability symbol is displayed when the weighing result is constant within the defined stability range. Options: Maximum precision/very precise/*precise/fast/very fast.

Stability delay: This setting lets you compensate for slowly abating disturbances, such as turbulence in the weighing chamber of an analytical balance. Options: *Very short/short/medium/long delay.

Zero/tare function: Defines conditions for taring the balance. Options: Without/after/at stability.

Automatic zeroing: If this option is enabled, changes of a fixed, configured fraction of scale intervals per second starting from the display zero point are automatically tared. Options: On/*off

Basic weight unit: Weight unit to be applied for this task. Options: All available weight units, *gram.

Display accuracy: A lower display accuracy results in faster display of the value. Options: *All decimal places/disable last decimal place

Tare/zero at power on: The balance is automatically tared when switched on. Options: *On/off

Configuring the Leveling Function Q-Level

Here you can define the properties of the leveling function. Options: Off, no function/*status display/warning message, repeated

Defining the Startup Mode of the Balance

Here you can select the mode that the balance should enter into when switched on and upon repeated presses of the on/off button (\circlearrowright). Options: OFF,ON,standby/ on, standby/always on

Menu	
Device parameters	
Print configuration settings	

.

.

Menu

Menu

Device parameters

Balance parameters

Leveler configuration

Device parameters

Balance parameters

Power On Mode

Configuring Printout Parameters

The factory settings are indicated with *.

Interface for print output: Connection of the printer used; options: COM port A, B, C/file/SD memory card

Output protocol: Options: *Print/SBI/XBPI/Web Service/SICS/second display **Standard printout GLP**: Defines when ISO/GLP output should be possible. Options: *Off/enabled for cal.-adjustment/always enabled.

Taring after printout: Defines whether the balance is automatically tared after a printout is generated. Options: *Off/on

Print event: Defines which event should trigger a printout. Options: *Print button/start of the task/initialization of the application/result print event/printout of component/results of application/end task/calibration-adjustment protocol event **Configure data output:** Options: *Configured print protocol/ FlexPrint **Print button elements**: Defines which texts should be printed. Options: GMP header / GMP footer / empty line / dashed line / date and time / name / weight block / gross weight / gross2 weight / net weight / increased resolution weight value / tare weight / tare1 weight / tare2 weight / range 1 / metrol. minimum / metrol. maximum / metrol. verification scale interval "e" / metrol. scale interval "d" / number of areas / manufacturer / model / serial number / balance version / display version / interface version no. / draft shield version / service contact person / telephone no. / email address / technical hotline / Internet address / maintenance contract / maintenance cycle / IP address / host name / user name / user description / task title / task description / leveler result

Setting the Date and Time

The system clock as well as the time setting of the weighing module is displayed. You can set the current date and time.





Defining Properties of the Display and Control Unit

The following properties of the display and control unit can be changed, as necessary: Language, help text (on/off), background colors, brightness, acoustic signal.

Touchscreen adjustment.

▶ Follow the instructions on the display.

This adjustment sets the sensitivity of the individual areas on the touchscreen. You can adapt the touchscreen (finger pressure, angle of impact, etc.) to individual requirements and preferences. We recommend that each individual user for whom a profile is created make this adjustment individually. To do this, make sure the desired user profile is active before making the adjustment.

Defining Interfaces and Network Settings

Settings for Serial Interfaces. Here you can configure the serial interfaces.

Network Settings (Ethernet)

Here you can configure the network settings: Device name, network IP settings, IP address, subnet mask and standard gateway.

The device name (max. 24 characters) defined here can be printed on reports.

► To save the settings press **Save**.

Menu

Ports

Device parameters

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Remote Network Settings

Enter here the network addresses for the VNC client and the LPR (remote) printer. To save the settings, press **Save**.



Configuring the Alibi Memory

Alibi Memory On/Off. You can switch the Alibi memory on or off. **Auto Delete.** You can configure the Alibi memory to be regularly deleted and define the deletion cycle (in days).

Restoring the Factory Settings (Reset)

You can delete all of your settings and restore the factory settings.



Loading a Software Update

After downloading the current software version, you can transfer it to the device via an SD card.

- ▶ Follow the instructions on the display.
- \triangleright After the software has been updated, the balance restarts.

Import/export data



If you have not already done so, insert the SD card into the available slot (see "Inserting a Memory Card in the Display and Control Unit"), and press Next.
 Select whether you wish to export or import data.

Export:

- Select the data you wish to export and press **Next**.
- Edit the name of the export folder, if desired, and press **OK**.
- ▶ Press Next.
- \triangleright The data is copied to the SD card.

Import:

- Press on the folder on the SD card from which you would like to copy data.
- Select the data you wish to import and press **Next**.
- \triangleright The data is copied from the SD card.

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User Management



- You can configure the following settings in this menu:
- Activating a user
- Creating a user profile (only possible as Administrator)
- Editing user profiles (modify, copy, delete, change or delete password, depending on user rights)

User Administration

The user administration allows for defining of users with distinct sets of rights: the Administrator and multiple users.

Administrators can access all functions (except for the Service area) and have all types of rights in all areas of the program. Only the Administrator can create new user profiles and assign them individual rights.

On the other hand, a **user** cannot use all functions. Users have restricted rights, which are defined in the user profile.

No user profiles exist when the balance is delivered. The balance is in Administrator mode so that all settings can be modified. The first user profile created is automatically an Administrator account. This account is used to create additional accounts.

- $\left(\begin{array}{c} \circ\\ \Box\end{array}\right)$ > To open the User Management menu, press the button USER ($\begin{array}{c} \circ\\ \Box\end{array}$).
 - ▷ The menu is opened, and the list of user profiles is displayed.



Creating a User Profile

This function is only available to an Administrator.

You can configure the following settings in a user profile; these settings apply only to the user defined by this profile:

- Language
- Display of help texts (on or off)
- Display settings (color, brightness)
- Acoustic signal: on/off; volume
- User rights
- Password protection
- Name and designation of the profile

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Please select the User profile managing sub function:	ற
User • Edit	
Create M	
Modify	
Сору	
Delete	
Change or delete own password	•
Back	

Please select your language:

English UK English US Deutsch (German) Francais (French) Espanol (Spanish)

User
New
User Prof.
Wizard
Language

- To create a new user profile, press Edit
- Press Create.

or

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-

The program guides you through the procedures for configuring the user profile. To select an option, press the corresponding button; the program automatically jumps to the next setting.

If the desired option is already selected (dark background), press Next to reach the next prompt.

If more than one option can be selected for a single setting, press Next after making your selection(s) to proceed to the next prompt.

Step 1: Set the Language

Press the button for the desired language.



Step 2: Define Whether Help Texts are Displayed

Select the corresponding button to define whether or not help texts should be shown.

Help texts are recommended in particular for new users. Once a user has become familiar with the operation of the balance, the user can switch off the help texts, if desired.



Steps 3 to 5: Setting the Colors and Brightness of the Display

- Select the color for the display background by pressing the desired color. The standard Sartorius color for the background is light blue (factory setting).
- Once you have selected the background color, you are prompted to select a \triangleright color for the user info area (see "Display in Operating Mode").
- Press the desired color for the user info area.
 - The standard Sartorius color for the user info area is a slightly darker blue (factory setting).
- \triangleright The display switches to the brightness setting.
- To change the brightness of the display, press the button indicating the desired option.



Select the loudness of the acoustic	signal	ů
User New User Prof. Wizard Aco	oustic sign	al
Off		
Quiet		
Medium		
Loud		
Back Overview	Info	Next

Step 6: Set the Acoustic Signal

If the signal is on, a short beep-tone is emitted each time an operating element on the display is used.

- Select the desired volume
- or
- Press Off to disable the acoustic signal.

Select rights for this user: Image: Comparison of the series of the

Do you wi password	ish to prote ?	ct this user	profile wi	th 👸
User 🕨 Ne	w 🕨 User Pro	f. ► Wizard ► F	Password	
▶ <mark>No, no p</mark>	assword pr	otection		
Yes, pas	sword prot	tection		
Back	Overview		Info	Next



Step 7: Assign User Rights

- Select the corresponding options to define which functions the user can access. The following rights can be assigned individually:
 - Creating, copying, modifying and deleting tasks
 - Importing data
 - Modifying the calibration and adjustment parameters
 - Modifying basic parameters
 - Administrators can access all functions.
- ► To move to the next menu item, press **Next**.
- ▷ An overview of all selected user settings is displayed.

Step 8: Define Whether Password Protection is Active

If you assign a password, this profile cannot be used until the password has been entered.

Select the corresponding option to define whether the user profile is passwordprotected or not.

The password is defined in Step 10.

Only the Administrator can open the user profile without the password (for example, if the user forgets the password) and assign a different password. The Administrator can remove the password protection so that a new password can be set, if desired.

Step 9: Check Your Settings

- ▶ Use the scroll bar or press the down arrow to view all settings.
- ► To modify a setting, press the corresponding button. This opens a screen showing the options for that setting.
- ▶ If the settings are correct, press **Next**.





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User 2

LogOut

User with all Rights

User description 2

Sort.

Step 10: Define the Password (If Password Protection Enabled)

- If you selected the option for password protection in Step 7 (see above), you are now prompted to enter the desired password twice.
- Press the upper button.
- ► Enter the desired password (minimum 4 characters, maximum 8; only numbers and uppercase letters are permitted).
- Press the lower button, and enter the password again.
- Press Next.

Step 11: Enter User Name and User Description

- ► To enter a name for the user profile, press the button **User name**. During operation of the balance, the user name is shown in the upper-right part of the display as long as the respective user profile is active.
- Enter the user name (maximum 40 characters) and press **OK**.
- To enter a description for the user profile, press the button User description.

The user description can be viewed at any time during operation of the balance by pressing the user info area in the display (see "Touchscreen User Interface"). Enter the description and press **OK**.

- To complete the process, press Save.
- ▷ The program switches to the user selection list. The newly created user profile is added to the end of the list.
- If you would like to activate the new user, press on the button with the corresponding user name.
- ▷ The program switches to the operating mode, and the selected user is activated. or
- ► To create additional user profiles, press Edit and repeat the procedure as described above.

or

Start

Edit

Administrator 01/12/2008 13.41.45 If you would like to switch to the operating mode without changing the user, press **Start**.

Activating a User

In the operating mode, the active user is displayed in the user info area in the upper right-hand corner of the display. To activate a different user, open the User Management menu and select the desired user.

- ▶ Press the key USER ($\stackrel{\circ}{\square}$).
- ▷ The available users are listed. The currently active user is indicated by an arrow and a darker background.
- Press the button indicating the user you wish to activate.
- ▷ The program switches to operating mode; the selected user is activated and shown in the user info area on the upper right.



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Editing a User Profiles

- (^o_□) ► If you have not already done so, open the User Management by pressing the key USER (^o_□).
 - To open the menu for editing profiles, press Edit from the user selection screen.
 - \triangleright The list of edit functions is displayed.

Which options for editing user profiles are available depends on whether or not you have Administrator rights. The following table shows which changes can be made by each type of user.

The illustrations in this manual show the screen content listed when an Administrator profile is used; your screen content may differ.

Option	Administrator	User
Modify own profile	\square	\square
Modify other profiles	\square	
Copy profile	\square	
Delete profile	\square	
Change or delete own password	\square	\square
Change or delete passwords of other users	\square	

Editing a User Profile

- Select Modify.
- If you are logged as Administrator, you must select the profile you would like to change and then press Next.
- The overview of all settings for this profile is displayed. Select and edit the parameters you wish to change one-by-one.
 - or
- To have the program guide you through all settings step by step, press
 Wizard. All setting options are then displayed again in sequence and can be changed.
- Press Next.
- ▶ Edit the user name and description if desired.
- Press Save.
- ▷ The user profile has been changed. The display switches to the user selection list.

Copying a User Profile

This function is only available to an Administrator.

When you copy a user profile that is password-protected, the password is not copied to the new profile!

- Select Copy.
- ▷ All available user profiles are shown.
- Select the profile you wish to copy.
- Press Next.
- ▶ Enter a new profile name and a new description for the copied profile.
- Press Save.
- ▷ The display switches to the user selection list, which now includes the new (copied) profile.

Please select the User profile managing sub function:	ഫ്
User ► Edit	
Create	_
Modify	
Сору	
Delete	
Change or delete own password	•
Back	

Please select the User profile managing sub function: User ► Edit Create Modif y Copy Delete Change or delete own password Back



Please select the User profile managing sub

Change or delete own password

function:

User • Edit

Create

Modify

Сору

Delete

Back

Deleting a User Profile

This function is only available to an Administrator.

- Select Delete.
- ▷ All available user profiles are shown.
- Select each profile that you wish to delete and press Next. or
- ► To delete all profiles, press All.
- > The profiles selected for deletion are listed in a confirmation prompt.
- If you wish to modify the selection, press No. or
- ► To confirm the deletion, press Yes.

Changing or Deleting Your Own Password

- ► Activate your profile, if it is not already active.
- ▶ Press Edit below the user selection list.
- Select Change or delete own password.
- Press Yes.

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- Enter the password twice, in the upper and lower fields.
- Press Next.
- ▷ The display switches to the list of functions for modifying profiles.



Deleting the Passwords of Other Users

This function is only available to an Administrator.

- Activate your own user profile.
- Press **Edit** below the user selection list.
- Select Delete other passwords.
- \triangleright A list of all users that have passwords is displayed.
- Select each user whose password you wish to delete and press **Next**.
- or
 - To delete all passwords, press All.
- > The users selected for password deletion are listed in a confirmation prompt.
- If you wish to modify the selection, press No. or
- ► To confirm the deletion, press **Yes**.
- \triangleright The display switches to the screen for editing user settings.

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