# 21 CFR part 11 compliance module

5Y, CY10 balances

# **OPERATING MANUAL**

IMMU-1161-01-04-23-ENG



OCTOBER 2023

# Contents

1. GENERAL INFORMATION	4
2. ACTIVATION OF THE MODULE	4
3. ADMINISTRATOR PANEL	5
3.1. Password settings	5
3.2. Operator accounts settings	6
3.3. Permissions management	7
3.4. Audit trail	10
3.5. E-signature	12
3.6. Backup	14
4. CREATING A DOCUMENT AND SIGNING IT VIA E-SIGNATURE	17
5. SIGNING A DOCUMENT FROM DATABASE LEVEL	23
5.1. Saved document printout	25

#### 1. GENERAL INFORMATION

#### Additional 21 CFR part 11 compliance module

All 5Y-series balances comply with the 21 CFR part 11 regulation and EU GMP part 4 regulation, annex 11. This means that they hold an electronic signature and a series of functions that protect and monitor operations of particular operators.

The data are fully protected through the following:

- advanced password settings
- · correct login check
- assignment of unique permission levels to operators
- automatic logout
- electronic signature, e.g. for a series of measurements
- · saving signed documents in the database
- data management access settings
- data backup
- · saving modifications in the Audit Trail file

### 2. ACTIVATION OF THE MODULE

The 21 CFR compliance module can be activated through a special code generated in the RADWAG's head office on the basis of a 12-digit license number that can be read in the balance menu: **Setup/System info/License ID**.

To enable this option, send the license number to RADWAG for generation of an unlocking code. The code will be returned to the client as a file. Save the file in the main directory on the Pendrive (external storage device) and then put the Pendrive into the USB port on the side of the balance, and activate the option in the menu: Setup/Miscellaneous/Extension modules/Compliance with FDA 21 CFR / EU GMP Volume 4. The balance software will check if the unlocking code is correct and the module will be activated. A relevant message will be displayed on the balance screen and the parameter value will turn into Enabled to signal the above-stated operation.

# ← Extension modules



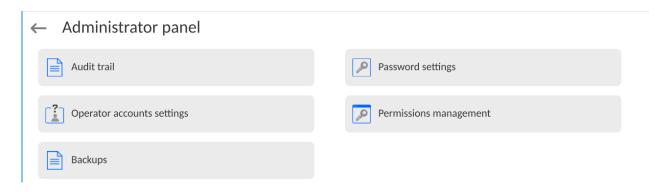
From now on, the balance software assures full functionality of the 21 CFR part 11 compliance module.

New settings related to operation of the module will show up in the **<Administrator panel>** parameters group in the balance menu. The operator can set all available parameters in accordance with 21 CFR part 11 requirements.

### 3. ADMINISTRATOR PANEL

In this menu group, you can declare the scope of actions that the operator with a specific permission level can take, password protection level and the unlogged operator's permission.

NOTE: Only the operator with the <Administrator> permission level can modify this menu.



# 3.1. Password settings

The menu group that allows you to specify the password complexity for balance operators.



Minimum password characters quantity	Specify the minimum number of characters in the operator's password. For '0" value, you can set any number of characters.
Lower- and upper- case letters required	Specify requirements regarding characters in operators' passwords.
Digits required Special characters required	
Password validity period	Specify the period of time, in days, after which you need to change the password.  For '0' value, the balance software does not require you to change the password.

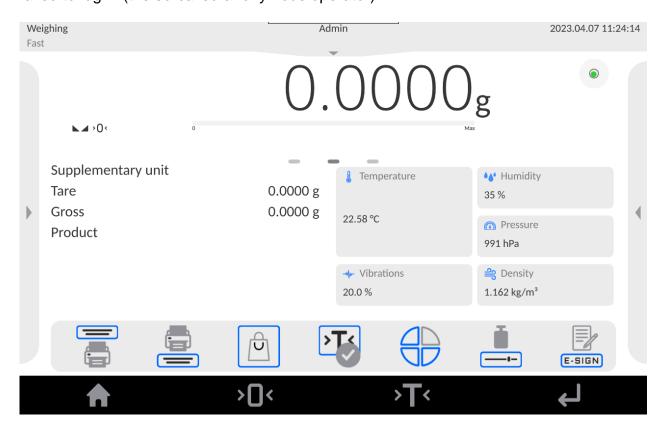
#### 3.2. Operator accounts settings

# ← Operator accounts settings



# Unlogged operator's permission

The administrator can assign permission levels to the balance operator who has failed to log in (the so-called anonymous operator).



#### Procedure:

Enter the <Operator accounts settings> parameters group, select <Unlogged operator permission levels> and then choose one of the following variants: Guest, Operator, Advanced Operator, Administrator.

**Note:** If you set **<Guest>**, the unlogged operator will not be authorised to change any software settings.

#### **Automatic logout**

This option allows you to activate the automatic logout after a specific period of time, given in minutes, if the balance is not used.

By default this option (<None>) is inactive in the balance.

#### Procedure:

Enter the <Operator accounts settings> parameters group, select <Automatic logout> and then choose one of the following variants: none/3 minutes/5 minutes/15 minutes/30 minutes/60 minutes.

# Number of account-blocking login errors

The option allows you to set the number of unsuccessful logging attempts taken by the operator. When the limit is exceeded, the access to the account will be blocked.

By default this option is disabled in the balance (<0> setting).

#### Procedure:

Go to the <Operator accounts settings> parameters group, select <Number of account-blocking login errors> and then enter the desired value.

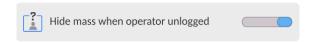
**Note:** when login errors occur (when the operator enters a wrong password) in the amount specified in this parameter, the specific operator's account will be blocked. This being the case, the administrator must intervene in order to unblock the account.

# Hide mass when operator unlogged

This option allows you to disable the mass display if the operator is not logged in. By default this option is inactive in the balance (<None> setting).

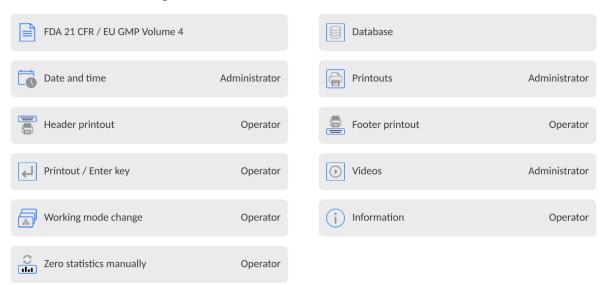
#### Procedure:

Go to <Hide mass when operator unlogged> and then switch the option into active.



#### 3.3. Permissions management

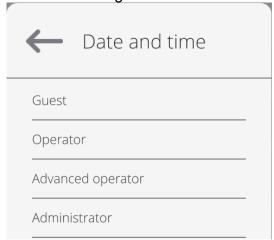
Permissions management



**Note:** if you switch the value of permission into **<Guest>** for particular parameters, the access to settings will be open (no need to log in).

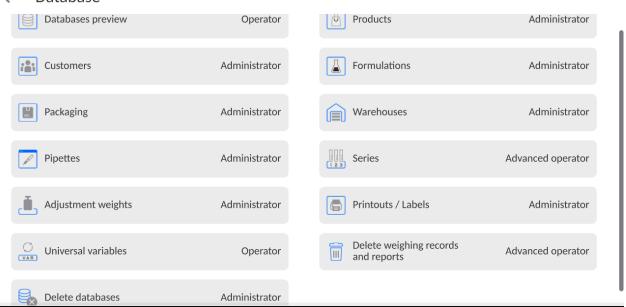
For each option, you can assign the permission level for edition or preview.

Available settings:



#### **Databases**

← Database



Default settings of the balance allow the operator logged as **Administrator** to make changes to particular databases. Depending on requirements, these permissions can be modified.

Similarly, you can change permissions for edition of other options available in this menu.

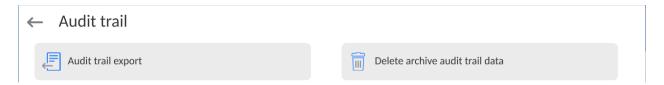
Default permission settings for particular options:

Default permission s	settings for particular options:			
Data to be edited:	Default permission:			
FDA 21 CFR / EU GMP Volume 4				
	E-signature	Operator		
	E-signature: approval	Advanced operator		
	E-signature: authorisation	Administrator		
	Signed documents:	Administrator		
	Preview			
	Audit trail export	Administrator		
	Delete archived audit trail data	Administrator		
Databases				
	Database preview	Operator		
	Products	Administrator		
	Clients	Administrator		
	Formulations	Administrator		
	Packaging	Administrator		
Warehouses		Administrator		
Pipettes		Administrator		
Series		Advanced operator		
Adjustment weights		Administrator		
Printouts / Labels Universal variables		Administrator		
		Operator		
	Delete weighing records and	Advanced operator		
	reports			
	Delete databases	Administrator		
Date and time		Administrator		
Printouts		Administrator		
Header printout	Operator			
Footer printout		Operator		
Printout / enter key		Operator		
Working mode change		Operator		
Information		Operator		
Manual statistics res	set	Operator		

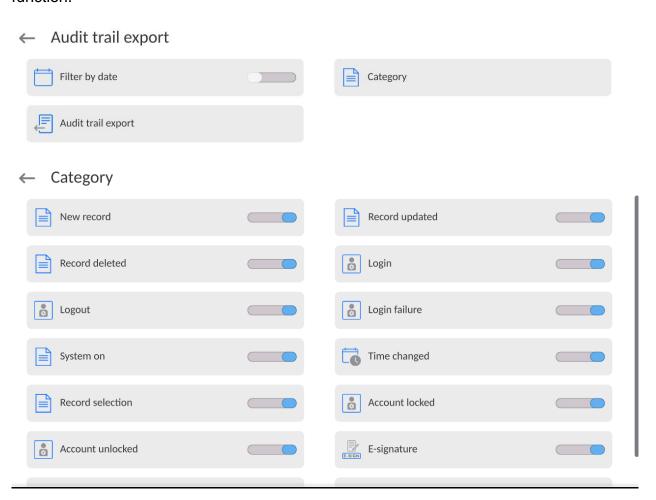
#### 3.4. Audit trail

The balance software saves all operations that are required by 21 CFR part 11 in the balance memory. It applies to the operations, for example to adding, editing or deleting operators, that have been performed in the balance ever since it was activated.

The balance memory is limited and thus you need to remember to archive audit trail file systematically in accordance with provisions of the quality management system in force in the specific plant.

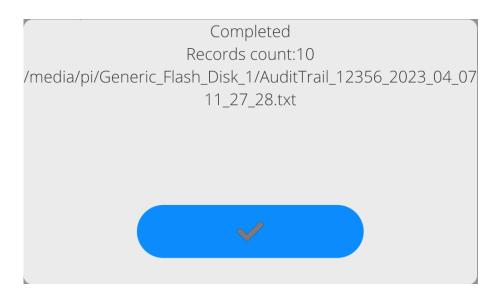


Before activating the function, put the Pendrive into the USB port and enable the function.



After enabling the function, a new information box will be displayed. It will show a process progress.

When it is completed, the box will be closed and the file "AuditTrail\_123123\_2023\_04\_07 11\_27\_28.txt" with data with 'readout only' attribute will be saved on the pendrive.



# The example of view and content of the AuditTrail...file:

Date and time Database	name Database	name Category	/ Category	/ Record	lid Record	name	Column name	Column	name	Previo ^
			Record deleted		·d			2023-04	-04 00:00	9:00
2023-04-03 09:58:18		System on	Start systemu							
2023-04-03 09:58:19	Profiles	Profile Record :	selection	Wybór rekordu	1073741825	Fast				
2023-04-03 09:58:31	Operators	Użytkownicy	Login Logowani	ie 1	Admin			1	Admin	
2023-04-03 09:58:52	Parameters	Parametry	Record updated	Zmieniono reko	ord		Global/Compliand	e with	21 CFR	Global
2023-04-03 12:20:18	Parameters	Parametry	Record updated	Zmieniono reko	ord		Global/Compliand	e with	21 CFR	Global
2023-04-03 12:36:22	Parameters	Parametry	Record updated	Zmieniono reko	ord		Global/Compliand	e with	21 CFR	Global
2023-04-07 11:22:09	Parameters	Parametry	Record updated	Zmieniono reko	ord		Global/Compliand	e with	21 CFR	Global
2023-04-07 11:22:13	Operators	Użytkownicy	Logout Wylogowa	anie	Supervisor					
2023-04-07 11:22:15	Operators	Użytkownicy	Login Logowani	ie 1	Admin			1	Admin	

Once the data have been archived, you can delete the audit trail so that you can make space for further data.

The following events are saved in the *AuditTrail*... file:

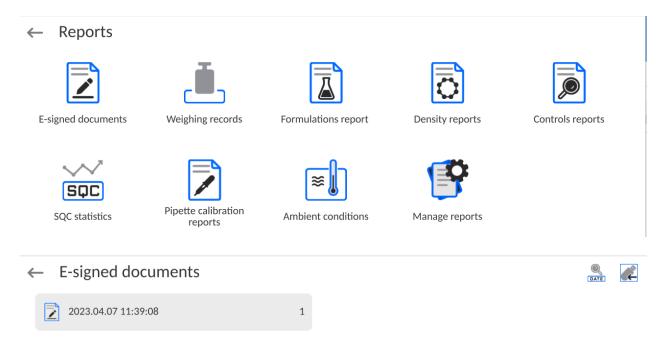
Scope of data	Scope of logged changes			
Operators	Adding, deleting, editing and logging, logging out (a			
	automatic), wrong login, account blocking, account			
	unblocking.			
Clients	Adding, deleting, editing.			
Products	Adding, deleting, editing.			
Profiles	Adding, deleting, editing and selecting specific profile.			
Packaging	Adding, deleting, editing.			
Warehouses	Adding, deleting, editing.			
System start				
Date and time				
change				
Adjustment	Every adjustment completion event.			
Database import				
Backup	Execution and restoration of backup.			

#### 3.5. E-signature

The balance software can save data on completed weighing in the balance memory. These data can take a form of documents and can be signed via the socalled e-signature.

The balance memory is limited and allows saving up to 16 GB of data with documents.

For this reason please remember to archive the signed documents base systematically.

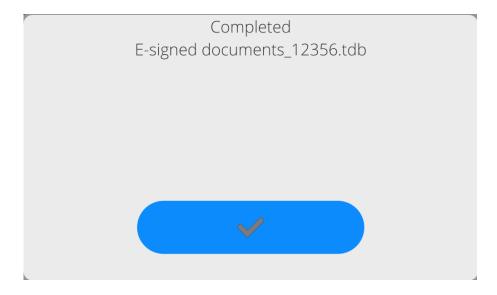


Before activating the function, put the Pendrive into the USB port and enable the

signed document export function by using the key

When the function is active, a new information box will be displayed. In the box, you will see a process progress.

When it is completed, the box will be closed and the "*E-signed documents 123123.tdb*" file with data will be saved on the Pendrive.



PIIK Edycja Format Widok Pomoc	
Working mode	Weighing
Date	2023.04.07
Time	11:36:48
Operator	Admin
Product	
Net	10.0018 g
Date	2023.04.07
Time	11:36:57
Operator	Admin
Product	
E-sign	data
Date and time	2023.04.07 11:39:08
Operator	Admin
Name and Surname	
Action	Signed
E-sign	data
Date and time	2023.04.07 11:42:58
Operator	Admin
Name and Surname	, dili I I
Action	Confirmed

Once the data have been archived, you can delete signed documents in order to assure space for further data.

### 3.6. Backup

The balance software allows you to make a backup of settings and data saved in the balance memory, and in case of emergency, for example balance failure and a need to replace it, to import saved settings and data to a new balance. To make the data restoration procedure possible, a new balance must be identical in terms of the software and metrological settings to the previous balance.

The authorised operator can make a backup on the Pendrive at any time.





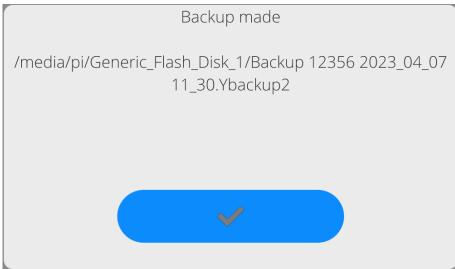
Before activating the function, put the Pendrive into the USB port and enable the function.



After activating the function, the backup making procedure will be initiated. Throughout the procedure, the balance settings and data saved in the balance memory will be saved in a relevant file.

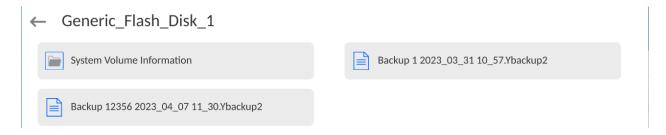


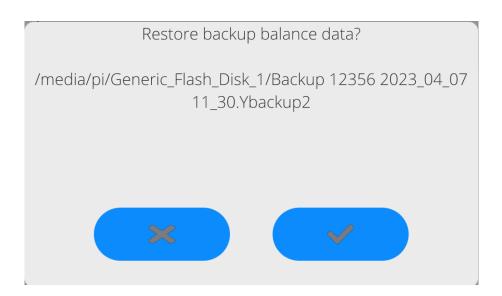




When it is completed, the "Backup 12356 2023\_04\_07 11\_30. Ybackup2" file (backup file with balance settings and data) will be saved on the Pendrive.

To restore the data, plug the Pendrive with files with backup in and activate the <Restore backup balance data> variant.

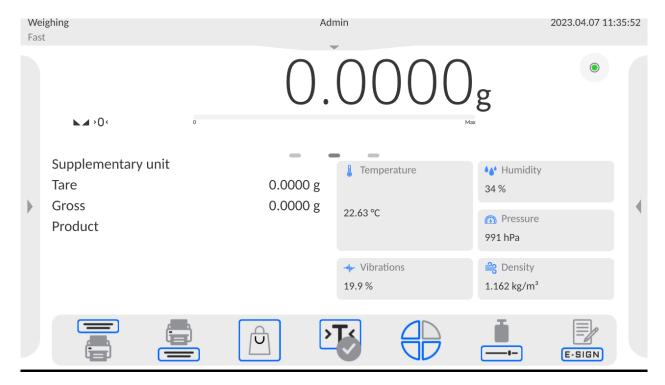




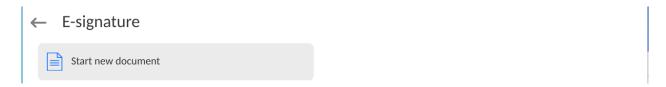
The balance software will check if the data are correct and if they can be copied into the memory. If the procedure is found feasible, the backup restoration procedure will be initiated automatically and the operator will be notified of the progress through relevant messages in the home screen. Once the procedure has been completed, the information on restoration of data will be saved in the Audit Trail file.

### 4. CREATING A DOCUMENT AND SIGNING IT VIA E-SIGNATURE.

Any operations in the balance must be performed by the operator after he has logged in. He will be allowed to perform operations attributable to his permission level (permission level for the operation is determined by the administrator).

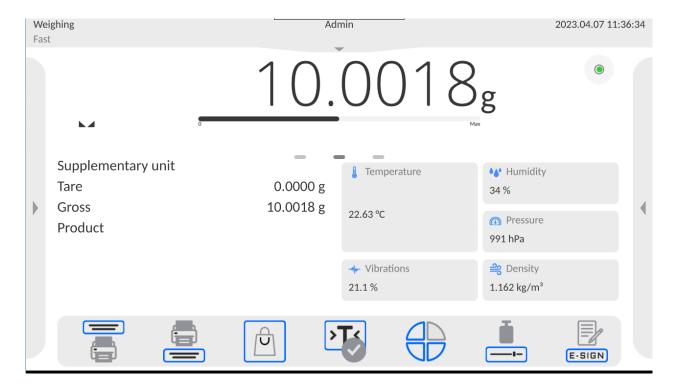


To start the document, click E-SIGN and the communication box will be displayed. Activate <Start new document>.



The procedure of creating a new document will be initiated automatically and the home screen of the software will be displayed again.

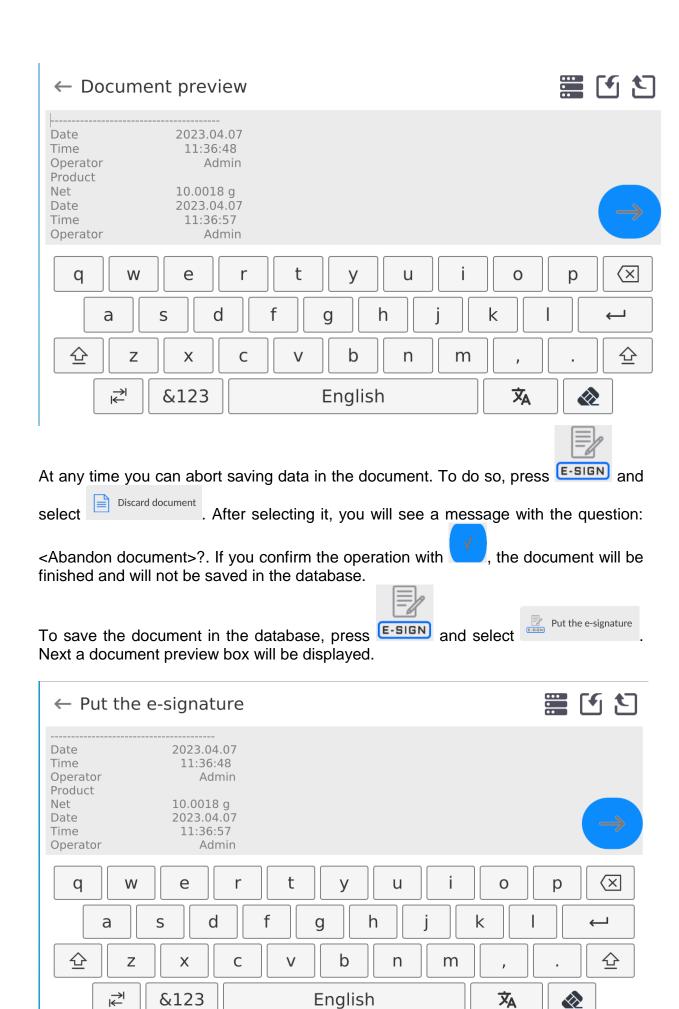
From now on, every approved measurement (PRINT key on the balance screen) will be saved in the open document.



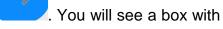
To preview the content of the document, press and select <Document preview>.

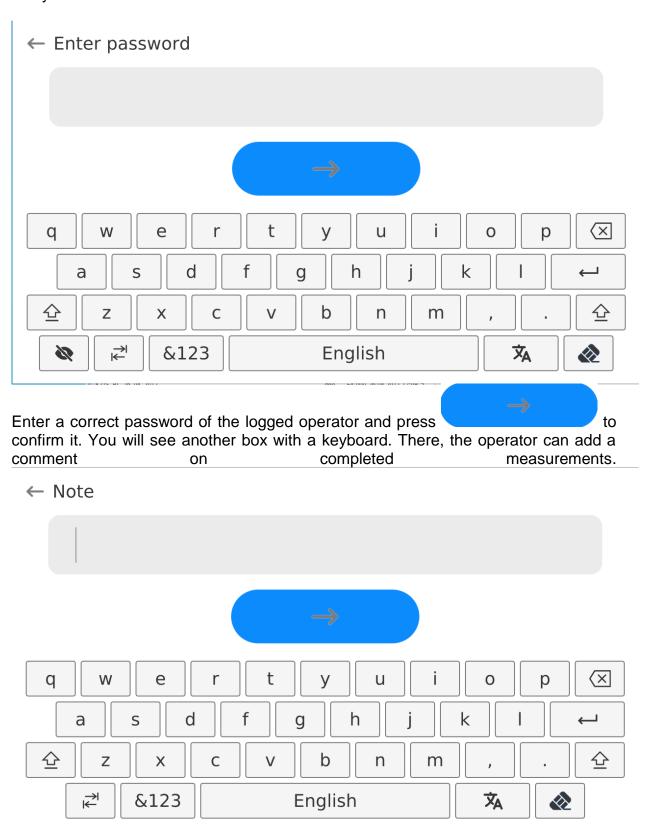


Once you have selected it, the home screen will show the content of data saved in the document.

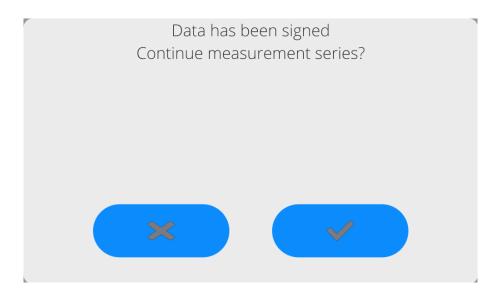


To continue the document signing procedure, press a keyboard.



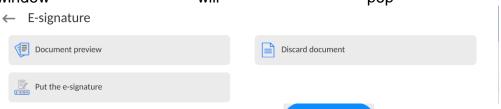


After entering the comment and saving it in the document through , the following message will be displayed:

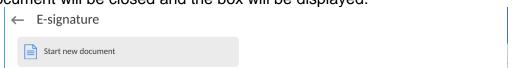


The operator can do either of the following:

Keep on working with this document and add further measurements by clicking
 This being the case, the message box will be closed and another window
 window
 pop
 up:



2. Stop saving measurements by clicking . This being the case, the document will be closed and the box will be displayed:



You can start another document or go back to the home screen of the software.

The balance memory is limited and allows saving up to 160GB of data with documents. For this reason please remember to archive the signed documents base systematically.

The balance software checks the free space for documents on an ongoing basis. If it determines that 90% of memory is taken, the message that reminds the operator to archive data will be displayed.

After this message has been showed, the operator can keep on saving documents. If the data are still saved and the software detects full memory, another message on lack of space will be showed.

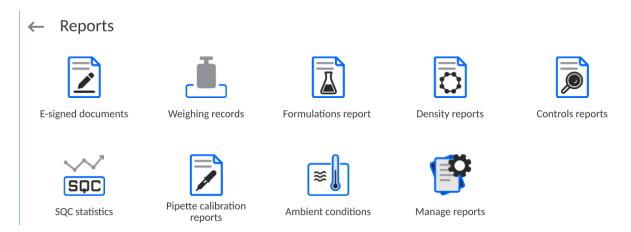
This being the case, it will not be possible to save further measurements. Finish the document you have started by signing it. Archive data afterwards.

The documents are related to the current working mode of the balance. The software allows creating documents in any working mode at a time. This means that you can have several active documents in various working modes.

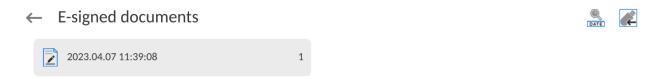
### 5. SIGNING A DOCUMENT FROM DATABASE LEVEL.

You can only sign documents from the working mode level. Signing and finishing the document results in saving it in the database in the <Signed documents> parameters group.

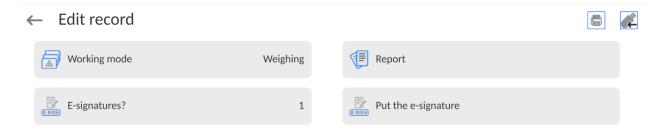
To sign, approve or authorise the document again, enter the reports base and go to the <Signed documents> base.



The box will show saved documents and each of them will be assigned a number specifying the number of e-signatures for a specific document.



To add another e-signature, click the document field to display details:



Select the <Put the e-signature> variant. The document preview box will be displayed:

# ← Put the e-signature

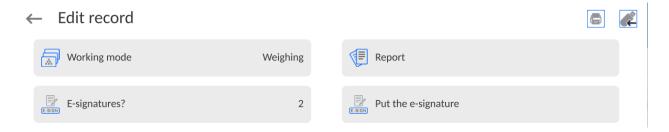




Press to display the box with available operations:

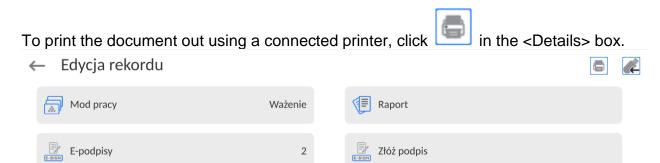


Select one of the options, e.g. <Confirmed>, and following the description above on signing the document, sign the document via the password and add, if necessary, a comment. After confirming it, the box with details will be displayed, and the number of signatures in <E-signature> field will rise by one.



You can add up to 10 e-signatures to a specific document.

# 5.1. Saved document printout



The document with data on e-signatures in this document will be automatically printed out.

Tale and a first and a second as	77 - 4 b 4
Working mode	Weighing
Date	2023.04.07
Time	11:36:48
Operator	Admin
Product	
Net	10.0018 g
Date	2023.04.07
Time	11:36:57
Operator	Admin
Product	
E-si	gn data
Date and time	2023.04.07 11:39:08
Operator	Admin
Name and Surname	
Action	Signed
E-si	gn data
Date and time	2023.04.07 11:42:58
Operator	Admin
Name and Surname	Fountie
Action	Confirmed
ACCION	Confilmed

