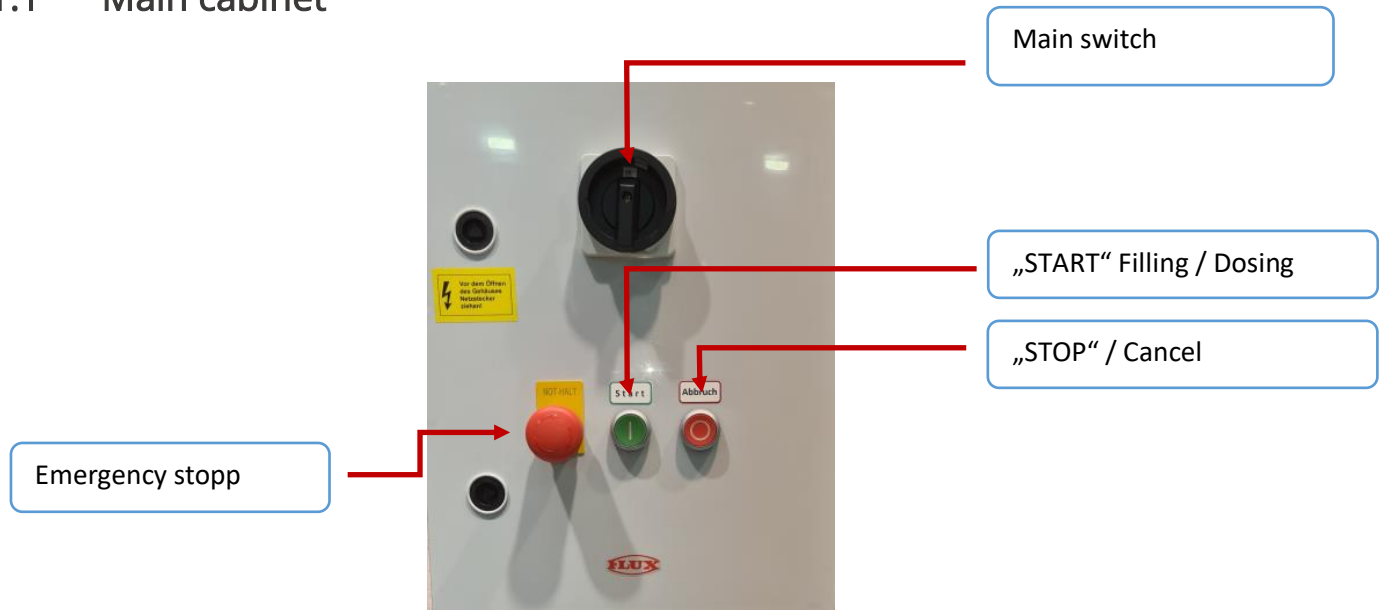
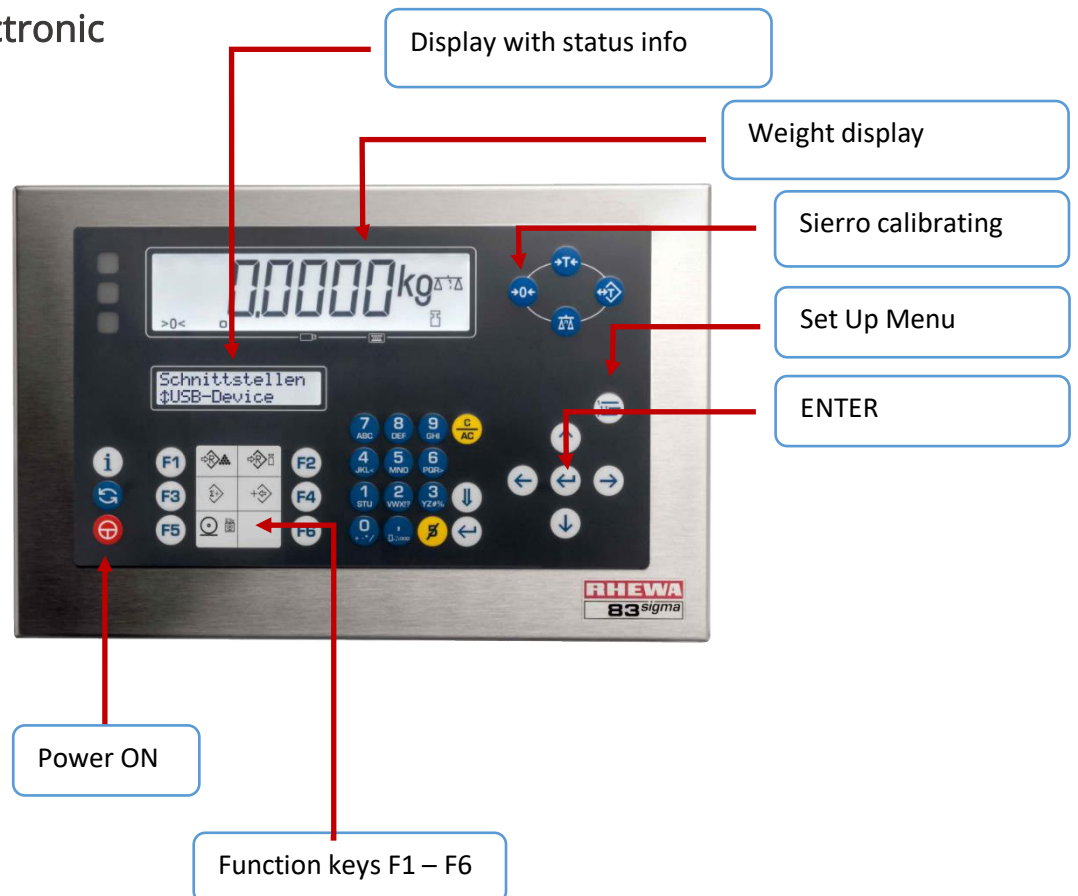


Semiautomatic filling system FLUX-FILL GT

1.1 Main cabinet



1.2 Dosing electronic



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General function keys:



Power on for dosing electronic



Delete input, for reset system press and hold the button for a longer period of time



Enter



Deletes the character to the left of the cursor

Function keys F1 - F6:

Select product	F1	Select	Edit	F2	Edit product list
	F3			F4	
Manual input	F5	Manual	Start	F6	Start dosing

- F1 : Selection from a database with predefined product names and filling weights (max. 500 different products and filling quantities can be stored)
- F2 : Change and addition to the database with the product list-
- F5 : Manual entry of a target weight for a filling independent from database
- F6 : Start filling (same function as the green START button on the main control)

1.2.1 Explanation dosing parameters

Tare weight kg : Weight of empty canister / bottle

Target weight kg : Net filling weight

DosTol - - kg : Not used in this execution – should be kept at 0.5 kg

DosTol - kg : Set point for closing dosing valve xx kg before the target weight is reached because closing valve requires time in which some liquid still flows

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1.2.2 Filling with database parameter

In this operating mode, the data for the target weight and weight of the container (tare) from a database are used.

Operation	Info secondary display
Press the (F1) key. Any active dosing is cancelled. A message appears to set up an empty container.	Place empty container ↵
The query "Select" follows (product list in the indicator). The last selection is suggested.	Select 1 \$5 kg olive oil
Enter the number of the selection or select (scroll) with the (↓) (↑) keys and confirm with (↵) .	Select 4 \$10 kg glass cleaner

1.2.3 Filling with manual settings for filling target

Operation	Info secondary display
Press the (F5) key. Any active dosing is cancelled. A message appears.	Place empty container ↵
Place the empty container on the scale and confirm with (↵) . The empty weight of the container (tare) is saved.	Σ-net 0.320 kg
Enter the target value (target weight) and confirm with (↵) .	Target [kg] 10
To avoid overfilling, the available weighing range is determined from the tare value, target value and max value of the weighing platform.	
If the values are not plausible , an error message is displayed.	Values out of range!
Check and correct entries or saved values. Restart the process.	
If the values are plausible , the message appears.	Waiting for start!

1.2.4 Tare monitoring

The tare monitoring checks the weight of the empty container and compares it with the weights stored in the database or with the stored tare weight when entered manually. A tolerance for the permitted deviation in % can be entered in the set-up menu.

If the empty weight of the container is outside the tolerance, a message is sent and filling does not start in order to prevent overfilling if the container is too small. This ensures that the target weight matches the container size used.

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1.2.5 Start for filling

Operation	Info secondary display
Tare monitoring is started with the (F6) key or START Button in main cabinet.	Tare 0.300 kg 0.270 0.330 kg
If the tare value is outside the permitted tolerance, the red LED lights up briefly. The message must be confirmed with (←).	Tare invalid! press Enter!
Remove the container and set up the correct container. The operation must be confirmed with (←).	Change container! press Enter!
If the empty weight of the container is within the tolerances, the green LED lights up briefly. The container is tared and dosing is started.	
The flow will be opened and stopped until parameter DosTol- is reached.	Target 10.000 kg 9.950 10.500 kg
If the DosTol- is exceeded, dosing is terminated automatically and checking the net filling weight is started.	
If the dosed value is within the tolerance, the green LED lights up. Confirm the net value with (←).	Check and confirm net dosage!
Remove the filled container from the scale. Place the next empty container on the scale. Start further dosing with START button in main cabinet	

1.2.6 Setting parameters for manual filling with F5

Operation	Info secondary display
Press (1 _{STU}) + (F5) key in succession.	
The parameter Dos Tol - - is not used in this execution and should be kept at 0.5 kg.	DosTol-- kg 0.5
Set the switch-off point for the flow. In the example, pump and valve stops 0.1 kg before the setpoint is reached because closing the valve requires time in which some liquid still flows.	DosTol- kg 0.1
The DosTol+ should be set at least as large as the DosTol-. It has no influence on the dosing accuracy!	DosTol+ kg 0.2

Note: The values set using keys (1_{STU}) and (F5) remain saved after the scale is switched off and do not need to be reset each time.

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1.2.7 Setting the general parameters for tare deviation and manual / automatic net control.

② + F5 Changing the general (default) settings

Operation	Info secondary display
Press keys ② + F5 in succession.	
General minus tolerance in % of the tare monitoring. Input max. 2 digits or confirm default value with ⬅. This tolerance applies to both the manual function with F5 and the database selection with F1.	TareTol- [%] 10
General plus tolerance in % of the tare monitoring. Input max. 2 digits or confirm default value with ⬅. This tolerance applies to both the manual function with F5 and the database selection with F1.	TareTol+ [%] 10
General setting for confirmation. If set to OFF, the net filling weight must be confirmed from operator with ⬅. Factory setting.	AutoConf OFF \$Off
Use the arrow keys ⬇ ⬆ to select ON and then confirm with ⬅.	AutoConf ON \$On

Note: The values set using the ② + F5 keys remain saved after the scale is switched off and do not need to be reset each time.

1.2.8 LED indication green / yellow / red.

Tare monitoring (TareTol - % Tare-Tol+ % e.g. 10%)

	Target range	
From 0 to TareTol. -	From TareTol.- to TareTol. +	Above TareTol. +

When operated using the F5 (manual) key, the tare is saved once and used for tare monitoring before each subsequent start. When operated using the F1 (select) key, the tare from the database is always used and is used for tare monitoring at each subsequent start.

Dosing (DosTol- value which is running out after closing dosing valve)

	Target range	
From 0 to DosTol. -	From DosTol. - to DosTol. +	Above DosTol. +

The dosing tolerances control the dosing unit

Signals after dosing is complete (net fill weight check)

	Target range	
From 0 to target value	From target to DosTol. +	Above DosTol. +

After the end of dosing, the net control is automatically activated. The filled net value is displayed and must be confirmed (see chapter 4 "AutoConfirm OFF"). Only a new empty container needs to be set up and dosing needs to be restarted with key F6 or START button on main cabinet.

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1.2.9 Edit product list database with F2

Operation	Info secondary display
Press key (F2), enter password "87185" and confirm with (↵).	Password -
Confirm "Selection" database with key (↵).	Table name \$Selection
Select the desired function "Add record", "Edit record", "Delete record" with the (↓) (↑) keys and confirm with (↵). The editing process of a data record must not be interrupted by shutting down the device or removing the mains plug. A data record must always be entered in full. Data entered incorrectly can subsequently be edited at any time.	edit record ...
Enter the number of the selection or select with the (↓) (↑) keys and confirm with the (↵) key.	Select 4
Enter the description. Here you can switch the input type 123 to ABC or abc using the shift key (⇧).	Description 12k9 blue can
Enter the tare weight of the empty container and confirm with the (↵) key. This weight is monitored with the set tare tolerance before starting.	Tara_kg 0.350
Change the target value or confirm the setting by pressing (↵).	Target_kg 12.1
The parameter Dos Tol -- is not used in this execution and should be set at 0.5 kg, confirm with key (↵).	DosTol-- kg 0.5
Enter the switching point for the fine flow as the distance to the target value in kg and confirm with the (↵) key.	DosTol- kg 0.1
Enter tolerance limit + as the distance from the target value in kg and confirm with the (↵) key.	DosTol+ kg 0.2
After completing all entries, exit the menu by pressing the left arrow key (←).	edit record ...

Database "Selection"

Select	Description	Tare_kg	Target_kg	DosTol -- kg	DosTol - kg	DosTol + kg
1	5 kg olive oil	0.28	5	0.5	0.05	0.2
2	10 kg glass cleaner	0.34	10	0.5	0.05	0.2
up to 500						