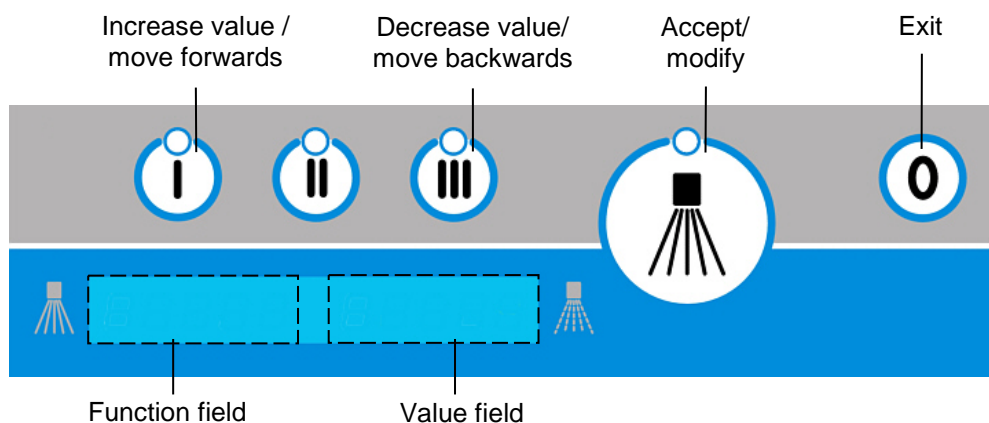


Quick programming instructions

FV 130.2

Keyboard use during programming



General:

In order to program the controls, power must be available, but the machine must be completely switched off (no LED must be illuminated).

Code – entry:

View service data: **CODE 10000**

Modify service data: **CODE 10001**



To access the code entry mode, you should keep the “0” key pressed (for around 3 seconds) until you see **Code 1----** on the display unit. You can leave the programming

area at any time by pressing the “0” key once again.

The digit to be modified will flash. Use the “I” key to increase the values in the display unit; these are then accepted by using the “accept” key. You should select each of the digits in this way, one after the other, until the code has been completely entered. If your entry is incorrect, you will leave the code entry procedure, and information code 122 will be displayed. If you enter all the digits correctly, you will be given access to the service level.

You can move forwards using the “I” key, and backwards using the “III” key.

The following main items are available on the service level:



- 1-1 ---- View / modify parameters
- 1-2 ---- Ventilate rinse aid inlet
- 1-3 ---- Ventilate detergent inlet

View parameters:

1-1 ---- Accept the item by using the “accept” key, or use the “I” or “III” keys to select the parameters. On the left, the parameter Pxxx will be displayed, and on the right, the value belonging to it. You can use the “0” key to go back one level.



Modify parameters:

1-1 ---- Select the parameters in the same way as when viewing, but access is via the code for “modify service data”.

To modify one of the parameters, select it by using the “accept” key – the figure will flash.

Select the figure by using the “I” key or the “III” key, and save it by using the “accept” key.

You can leave the current level and go back to the previous level by using the “0” key.

Ventilate rinse aid inlet 1-2 ----

Ventilate detergent inlet 1-3 ----

Select the item you require. The dosing pump selected will be energized and the remaining running time will be displayed.



Exit the ventilation programme by using the “exit” key.

Information/ error display:



If you receive an information message, you must follow the instructions. The rinse operation will still be possible.



If you receive an error message, no further rinse operation is usually possible. Notify Customer Service.

Parameter mode

Important: the modification of factory set parameters may restrict the overall operation of the machine. In the event of arbitrary modification of parameters by unauthorized personnel, guarantee claims will become invalid.

Par. no.	Service parameters/ setting options	Use as	Value range	Unit	Factory setting	Observation
101	Rinse programme / key 1	Parameter	1 .. 50	-	1	Assign rinse program no. to key 1; this may be changed
102	Rinse programme / key 2	Parameter	1 .. 50	-	3	Assign rinse program no. to key 2; this may be changed
103	Rinse programme / key 3	Parameter	1 .. 50	-	4	Assign rinse program no. to key 3; this may be changed
104	Rinse aid dosing quantity	Parameter	0.10 .. 1.00	ml/liters of water	0.2	Value must first be set in outline according to manufacturer's information, but then it must be adjusted depending on the water hardness and the rinse result.
105	Detergent dosing quantity	Parameter	0.1... 20.0	ml/liters of water	2.0	Value must be set in outline according to manufacturer's information, but then it must be adjusted depending on the water hardness and the rinse result.
107	Switch beep on / off	Parameter	0/1	-	1	Switch acoustic "beep" ready message on / off
111	Total operating time display	Display	5-digit	Hrs.	0	Operating time, query only
112	Total number of wash cycles	Display	5-digit	-	0	Wash cycles / loads, query only
113	Number of wash cycles since last reset	Display	5-digit	-	0	Wash cycles / loads, resetting possible
114	Serial number	Display	8-digit	-	Serial number	Factory settings may be queried Important: the first 5 digits will be displayed in rotation with the last 3 digits!
119	IR-communication	Parameter	0/1	-	1	It is possible to shut off communication via IR interfaces.
120	Load factory setting service parameters	Parameter	0/1	-	0	Effective only upon power supply reset ON / OFF. Important! All changes to service parameters will be reversed. Power supply reset must be carried out within 5 minutes, otherwise factory settings will not be loaded. Without power supply reset, the information 123 will be displayed.
121	Activate maintenance display	Parameter	0 .. 3		0	0 = OFF 1 = Operating hours 2 = Batch counter 3 = Operating hours or number of batches
122	Operating hours reference value	Parameter	10 .. 10000	Hour	0	Evaluation according to operating hours
123	Batch counter reference value	Parameter	100 .. 50000	Loads	0	Evaluation according to number of batches

Par. no.	Service parameters/ setting options	Use as	Value range	Unit	Factory setting	Observation
124	Reset maintenance display	Parameter	0/1		0	0 = NO 1 = YES Note: When using the M-Commander an upload and download is necessary for the reset procedure.

Rinse programme parameters 101-103

Rinse programme no.:	Boiler temperature target value	Wash time target value		Wash pressure reduction target value
		Washing	Total	
1	83	95	120	0
3	83	215	240	0
4	83	335	360	0

Details of further pre-defined rinse programmes are given in the operating instructions.