



MANUAL SIGMA-W



1 Functioning of the keys

1.1 Designation

- The upper key is the **SELECT**-key
- The middle key is the **START**-key
- The lower key is the **ECO**-key

1.2 Coin machine

- On a coin machine, the **SELECT**-key is used to choose the desired program. Pressing this key, increases the program number. If this option is set, the respective price will be indicated in the left display.
- On a local coin machine, the middle key has no function. Only when selecting the option: '**remote pay**' or '**remote start**' in the configuration display of the **SIGMA ORGANISER**¹ program, this key acts as a **START-button**, after the amount has been paid. The **START-key** stops the machine. For this purpose, the **SAFETY**-enable in the configuration display should be activated. Pressing this button for 5 seconds uninterruptedly, while the machine is working, stops the program.
- The **ECO**-key lowers the program number, when no ECO-option has been set in the configuration display of the SIGMA ORGANISER program. If this is the case, pressing this button shuts the eco-function off or activates it.

1.3 Machine not provided with coin system

- The **SELECT**-key increases the program number. The program numbers are successive.
- The **START**-key starts the selected program. However, when this **START-button** is kept pressed for 5 seconds, while the machine is in its resting position, **Add** appears on the display. A second preceding program can be selected. The machine will complete the second program first and will start the other one afterwards.
- The **ECO**-key lowers the program number, if one of the first three eco-options has been set. If not, this key allows to activate the eco-function before starting the machine.

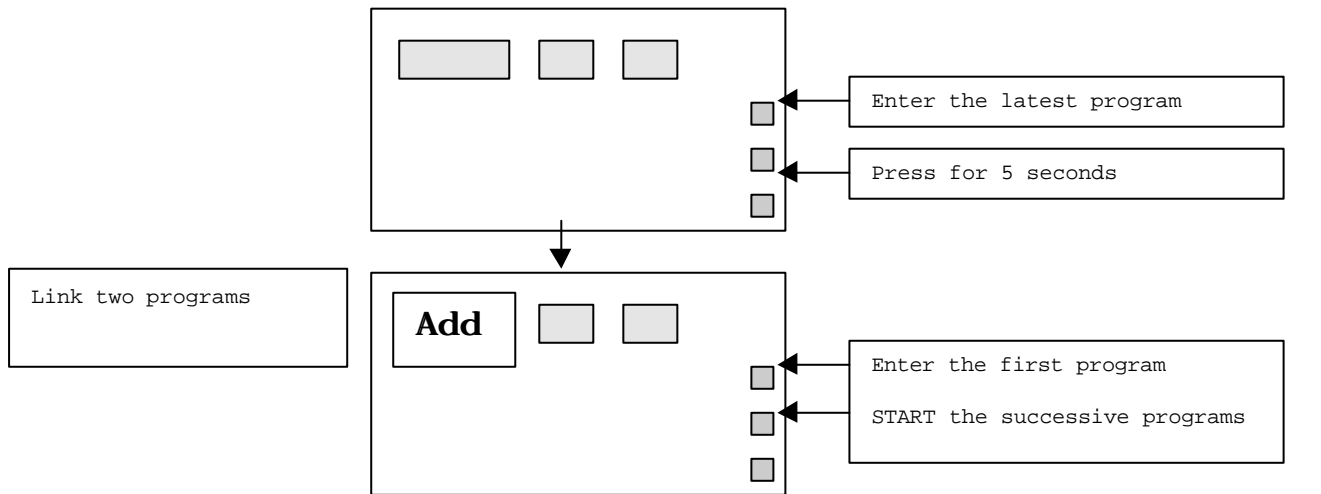
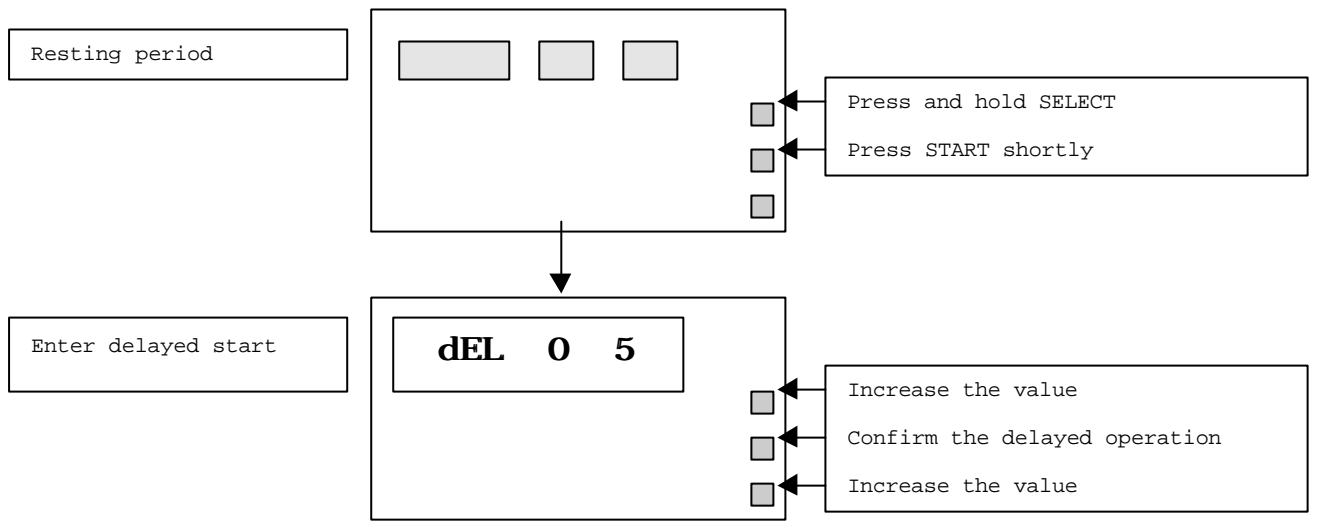
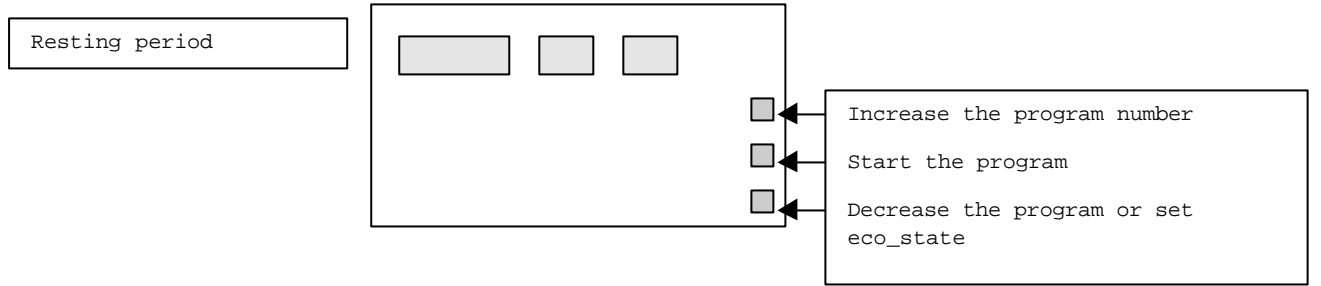
1.3.1 Delayed startup

Press and hold **SELECT**. Press **START** briefly.

- **dEL** appears on the display, this is the 'delayed start' function. Use **SELECT** to increase the value by 10 minutes. Use **ECO** to decrease the value by 10 minutes. Once a total of 10 hours is reached, the value increases or decreases by 1 hour. It is possible to program up to 99 hours. Press **START** to activate the delayed starting. The counting down time blinks on the middle display group. As this countdown has finished, the program set begins.

¹ See **SIGMA ORGANISER** manual

Diagram of the basic functions





2 Functions

During operation, some additional functions can be retrieved:

Press **SELECT** and hold. Press **START** and release.

2.1 F1 time stop

- The first function to be selected is 'time-stop'. During the washing process, the time is stopped. The level and temperature set are maintained as long as F1 is activated.
- By pressing F1 during the extraction process, the extraction time is prolonged to 15 minutes.
- F1 can be set automatically. If Timestop has been chosen on the **SIGMA ORGANISER²** program, F1 shall be automatically activated from the beginning of the respective part of the washing process. The function must be manually switched off.
- Pressing **START**, quits the function. Pressing **SELECT** activates F2.
- Press **ECO** to set the operating time. Pressing the button adds 10 minutes, with a maximum of 4 hours. The value can be reduced by pressing **START**. The time-stop function is executed during the time set.

2.2 F2 soaking

- The second function can only be set during the washing process. The machine keeps the temperature to a 40°C at a high water level. In common with F1, a specific time can be set likewise.

2.3 F3 reduced washing movement

- During the washing process, the washing movement is reduced in the following way: suppose the washing movement has been set to 12 seconds rotation time, 3 seconds dwell time, it is adjusted to 3 seconds rotation time, 12 seconds dwell time. If dwell time is longer than rotation time, no adjustments are made.

2.4 F4 switch off extracting process

- If F4 is selected, the machine executes all extraction movements at a maximum extraction speed of 500 revolutions/min.

2.5 F5 run through the programs quickly

- Press F5 to run through parts of the program quickly. Pressing **ECO** starts the next part.
- The right display-group indicates the serial number of the washing program's part.
- During the extraction, there can be no adjustment until the machine is still.

² See **SIGMA ORGANISER** manual

2.6 F6 stop all extracting activities

- F6 stops all extracting activities.
- The **START-key** erases the function, the **ECO-key** has no function.

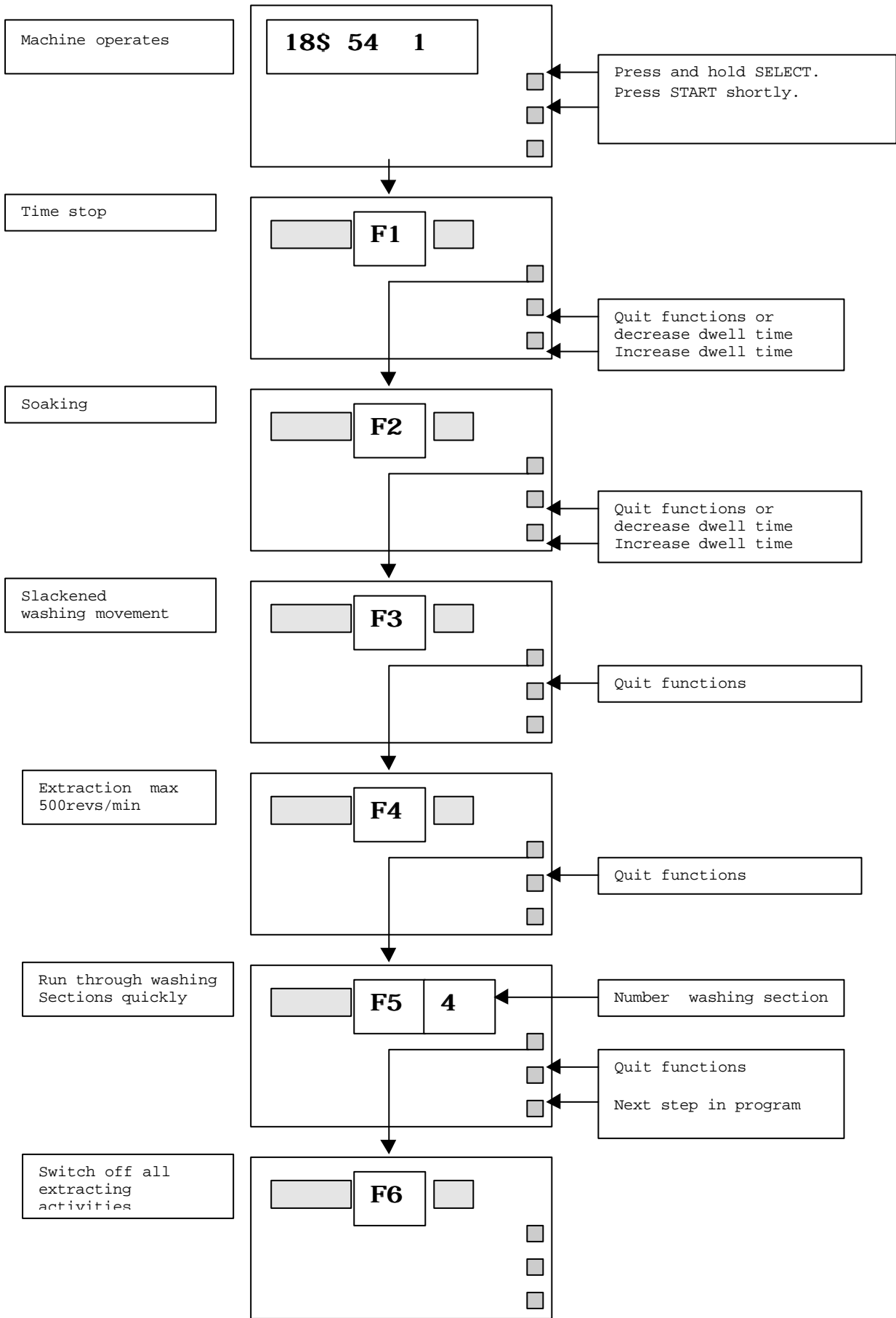
2.7 F7 controls rotational speed

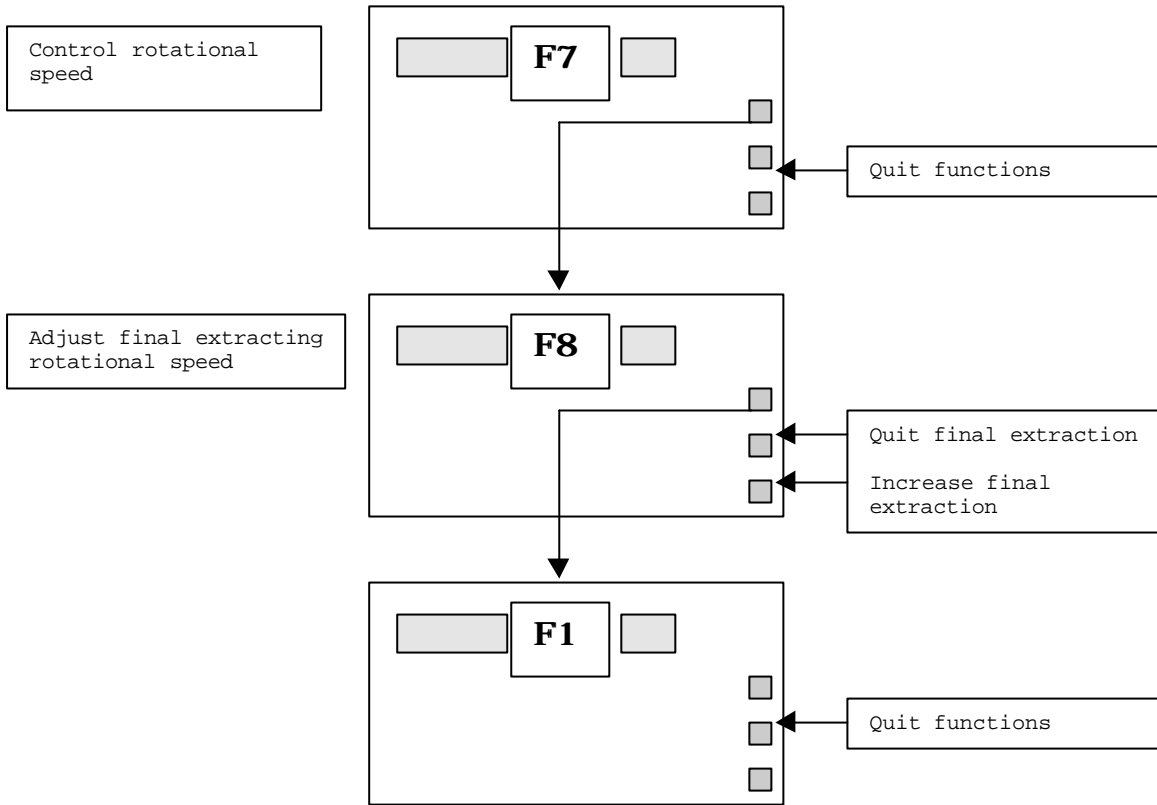
- F7 indicates the current rotational speed
- The **START-key** erases the function, the **ECO-key** has no function.

2.8 Adjust F8 speed - final extraction

- The rotational speed of the final extraction can be adjusted with 50 revs/min at a time.
- **START** raises the value up to the maximum rotational speed possible. **ECO** decreases it to the minimum of 500 revolutions.
- When quitting the function-setting, the value is stored.
- The settings can not be quit at F8. Go to the next function to do so.

Diagram of function settings







3 Set access code, prices, system address.

- All customer settings such as: price per program, system address, coin- and time setting are stored in the **EEPROM**³ memory. In order to obtain access to these data **EEPROM** proceed as following:
- Press **SELECT** and hold. Press **ECO** shortly. When releasing both keys, **Code** **00** **00** appears on the display.
- The current valid code number should be entered as follows: **ECO** lowers the value, **START** raises it. The code is controlled by pressing **SELECT**.
- If the code corresponds with the value set, several variables can be entered. If the code doesn't correspond with the value entered earlier, the setting menu will be quited.
- During all following setting, all buttons have the same function: **START** and **ECO** increase and decrease the respective value, pressing **SELECT** stores the value in the **EEPROM**.

3.1 Setting the access code:

- After entering the valid access code, **Set** **00** **00** appears on the display. A new code can be selected.
- **ATTENTION:** Opt for a specific, easy to remember value as access code. If you forget this code, it is not easy to change it, blocking further settings.
- You're free to choose a code between **0000** en **9999**.
- When delivering a new machine or control, this code shall be: **0000**

3.2 Setting the prices:

- The major settings, on a coin machine, are the prices. If the machine is not configured as payable, these settings aren't accessible.

3.2.1 Prewash price:

- After storing the new code, the setting of the prices can begin. **100** **P** **rE** appears on the display.
- This first price setting is only relevant if the customer has the option to switch off the prewash function by pressing **ECO** (this option can be set on **SIGMA-ORGANISER**⁴ program). If the prewashing process (the first part of the washing cycle) is dropped, the price of the program can be reduced.
- Example: the selected program costs 100 units. The eco-option **NO SECTION 1** has been selected in the **SIGMA ORGANISER** configuration menu. The **PRE** value has been set on 10 units. If the customer switches off the first part of the washing process by means of the **ECO**-key, only 90 units will be requested.
- If this option is not desired, the value should be set to 0000.

³ **EEPROM:** Electrical Erasable Programmable Read Only Memory: fixed memory: the programmed value is stored even if the machine is not electrically connected.

⁴ See manual: **SIGMA ORGANISER**

3.2.2 Program prices:

The prices of the 20 first programs can be set successively. The location of the comma, the decimal point, is of no importance, a four digit value is used:

110 **co** **1**

- The four left displays show the price, the two right displays show the program number.
- All programs set with **SIGMA ORGANISER** should be priced.

3.3 Displaying statistic data:

- Only on a coin machine, the value of the coin counter is displayed.

0125 **C1** en **0223** **C2**

- If the counter reaches the value of 10.000, it recounts from 0 on.
- Any time **SELECT** is pressed, following data is displayed. The total operating time in hours is now shown: **0** **t** **IM**
- The operating time can not be altered.
- Press **SELECT** to continue.

3.4 Setting the temperature indications:

- During configuration of the machine, with **SIGMA-ORGANISER**⁵ program, you have the option not to display the temperature on the left display group. As to be able to test the temperature while the program is running, it could be useful to display it after all. Now is the time to set this option.
- **TMP** **Y** changes into **TMP** **N**

3.5 Setting the system address

- If the SIGMA control is connected to a system, you can now enter the address:

10 **A** **dr**

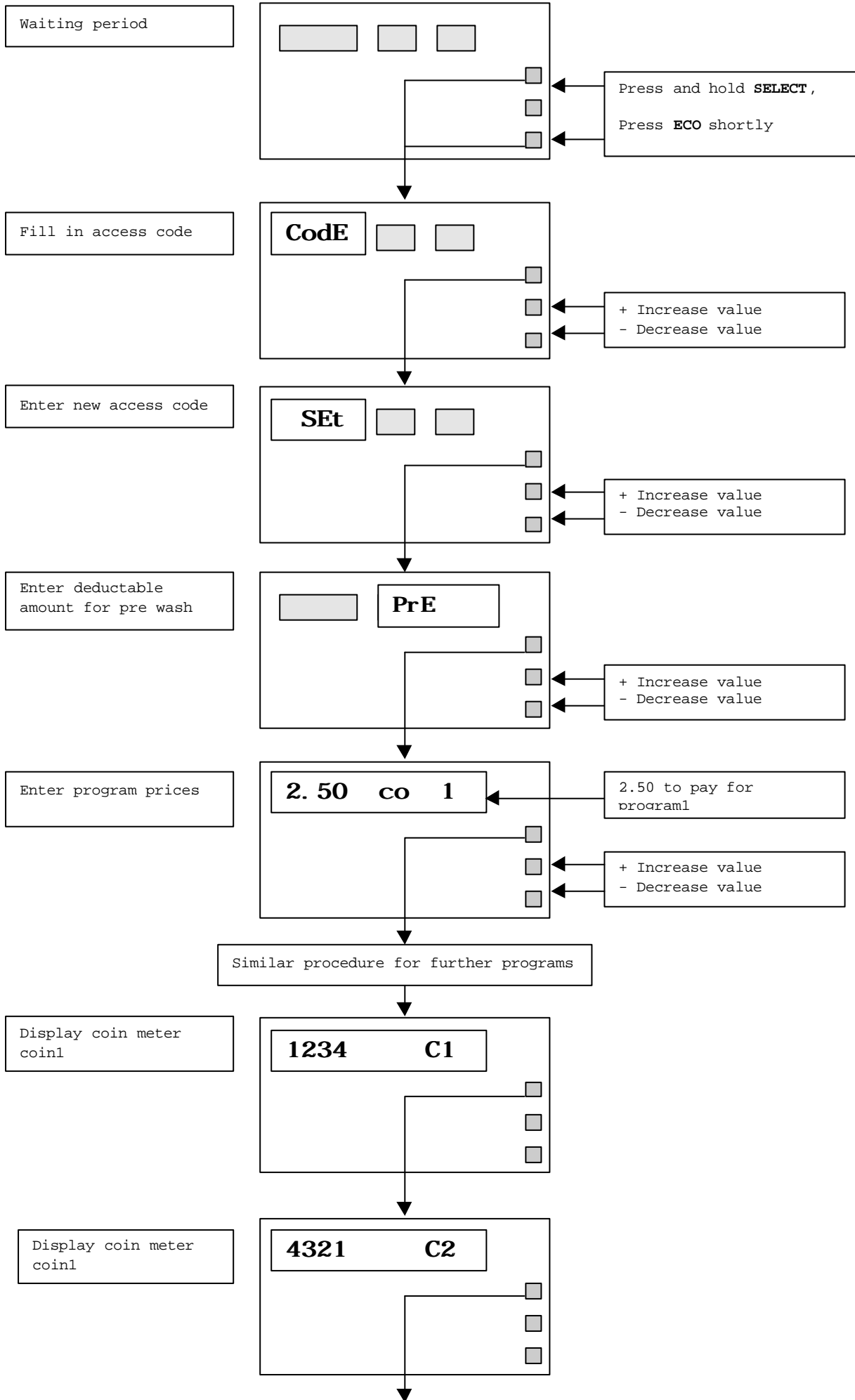
- Every machine should be set to its own address. It should not occur that two machines have the same address. You're free to choose a value between 0 and 255.
- Press **SELECT** to quit setting.

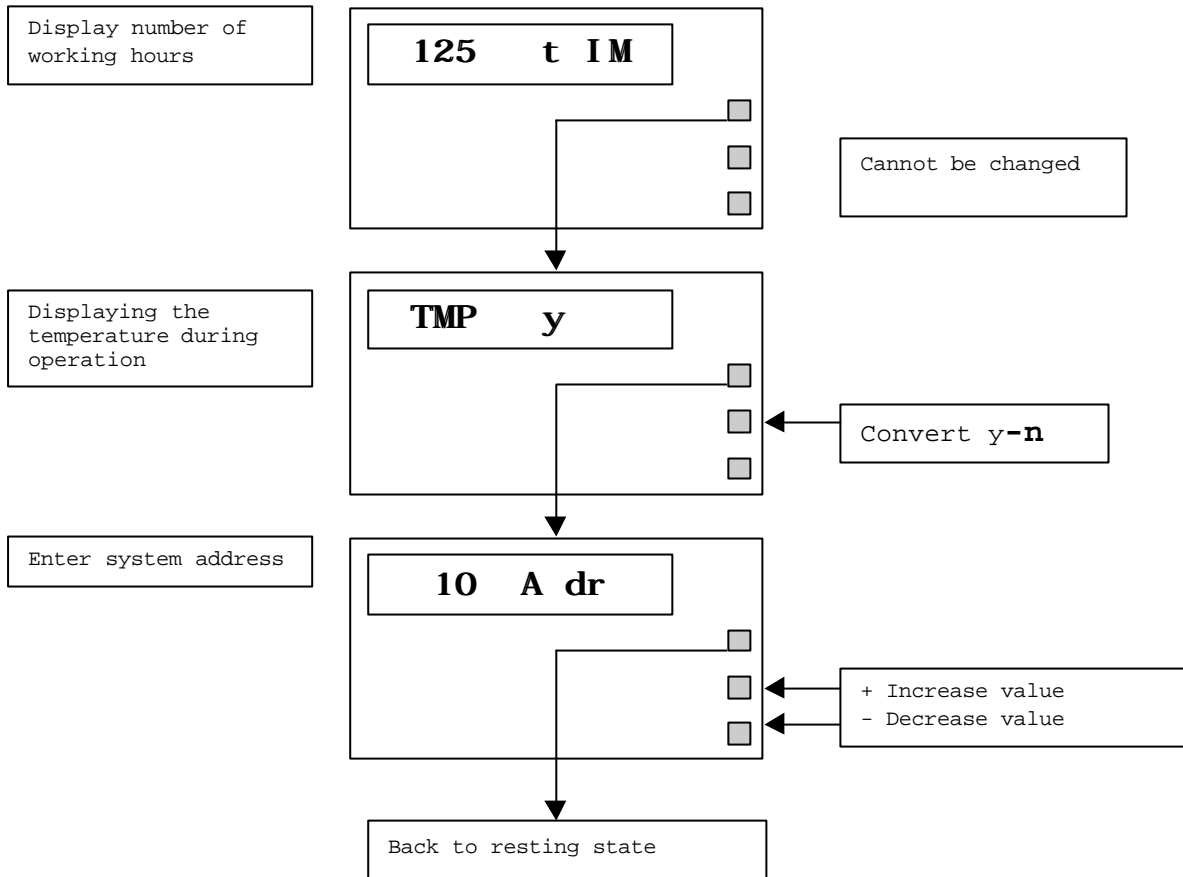
3.6 Automatic switch off

If no buttons are pressed within 20 seconds, the control switches to waiting time.

⁵ See **SIGMA ORGANISER** manual

Diagram price settings:







4 Testing program:

→ Remove all linen from the extractor before starting the testing program and open the door.

The testing program is started by pressing **SELECT** for 5 seconds .

tEst appears

Press ECO 5 times within 5 seconds.

If this doesn't succeed, the control returns to waiting position. You can try again.

4.1 Door Operation:

As primarily test, the functioning of the door switch and door lock is tested.

- If the door is not closed properly, **CLOSE** appears. The door is locked when shut.
- If this is not successful, after ten attempts, **door Error** appears on the display. Door functioning should be controlled now.
- Press **START** in order to test the unlocking and locking of the lock.
- After closing the door, **tEst** reappears on the display.
- After pressing **SELECT**, the test will be continued.

4.2 Testing the ECORAM

The control has a ECORAM memory, which stores the machine data.

If a voltage cut-off occurs, all data concerning the program and the washing process is retrieved from this memory. A small capacitor makes sure the ECORAM is charged with the right voltage. The data is stored for about one week.

- If the operation fails, **rAM** appears on the display.

4.3 Testing the EEPROM

Coin settings etc... are stored in a fixed memory: the **EEPROM**

If the **EEPROM** seems faulty, **EEPrOM** appears on the display.

4.4 Testing the level sensor

- The display indicates: **000.0 rEF** This is the measured value of the level in centimeters of water column.
- Pressing **SELECT** adjusts the zero. Please make sure the test probe is free of dirt and no water is left in the machine. The value should be between -1.00 and 1.00 cm.
- The sensor test is quited by pressing **START**.

4.5 Display test

- Now all displays and leds illuminate: **88888888** except the second last decimal point.
- When **SELECT** is pressed, the motor test is executed.

4.4 Motor test

- **0000 LEft** appears on the display. This is the rotational speed of the washing movement counterclockwise at an extraction speed of 45 rotations/min.
- After 60 seconds the motor stops and **0000----** appears for 10 seconds on the display.
- The 60 minutes' counterclockwise washing movement is executed mentioning **0000ri GH**. The rotational speed is set to 45 revolutions/min.
- The machine now completes the distribution process if it's a machine with frequency converter. **0083 dI St** is displayed. The distribution speed is dependant upon extractor diameter. The target speed can be read in the **CONFIG MENU** of the **SIGMA ORGANISER** program. If there's some water left over in the extractor, it is drained now. **LEV** appears on the display as long as the security level is not reached.
- The extractor now continues at a low extraction speed: 500 revolutions/min: **0500 LO**
- At the end of the 60 seconds, the tension-frequency relation of the frequency converter is now measured and stored in the **EEPROM**. This relation is important for the overloading during extraction. This value is not stored when this process is run through quickly.
- Next phase is high extraction: **1000 HI** The motor stops after 60 seconds and the extractor holds.

4.5 Testing the inlet valves.

- Now the water inlet valves are ready to take the test.
- First the temperature is shown, the extractor rests, no inlet is activated.
- Pressing **START** tests the inlets 7 and 5. Inlet 5 is activated first, and after 5 seconds, inlet 7. The extractor executes a counter clockwise washing movement at a speed of 45 revolutions/min.
- After that inlet 4 is activated followed by inlet 2. The extractor runs at 45 revolutions/min counterclockwise.
- Valve 6 followed by valve 3 is tested when the extractor is in resting position. The left display group displays the water level already reached.
- Finally, the recuperation valve, if present, can be tested.
- Press **SELECT** to return to the previous process, the testing of the motor. To proceed with the next process, press **ECO**. This applies to every step of the testing process.

4.6 Testing the soap control

- This testing is only completed when the soap-option in the **CONFIG**-display of the **SIGMA ORGANISER** program is switched on.
- During this testing inlet 7 is activated in order to flush possible aggressive additives.
- The first soap outlet is being controlled for 2 seconds, all the other outlets only during 1 second.

4.7 Testing the heating contactor

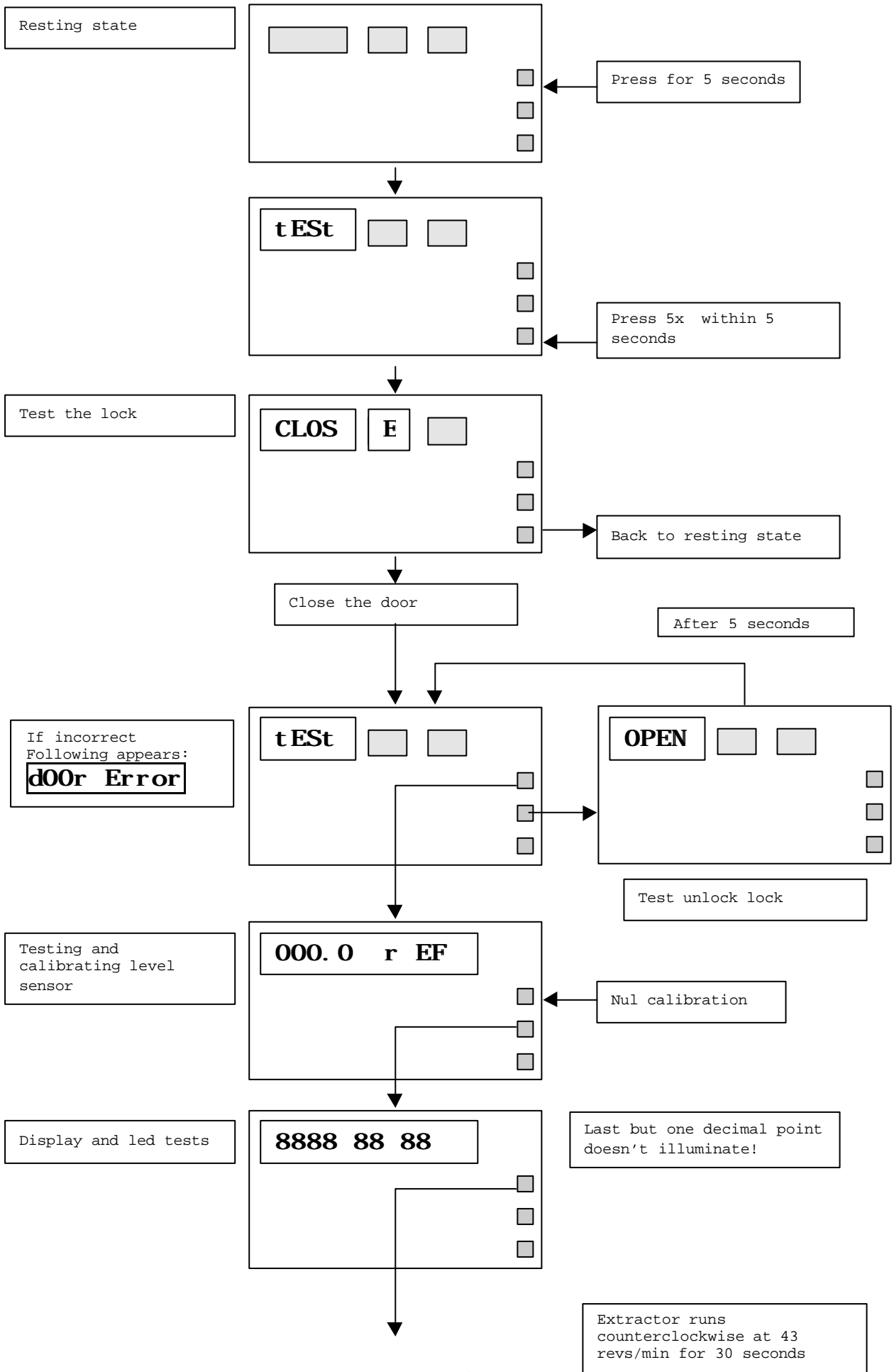
- In order to test the heating safely, the machine is first filled to safety level, if this isn't already the case thanks to previous testing. As long as the level is insufficient, ----- appears on the display. Press **ECO** to skip the testing.
- **HEAT** appears on the display. Press **SELECT** to switch the contactor on and off for 1 second.
- After this test, the water present in the machine is drained and the door is unlocked.

4.8 Testing the digital entries

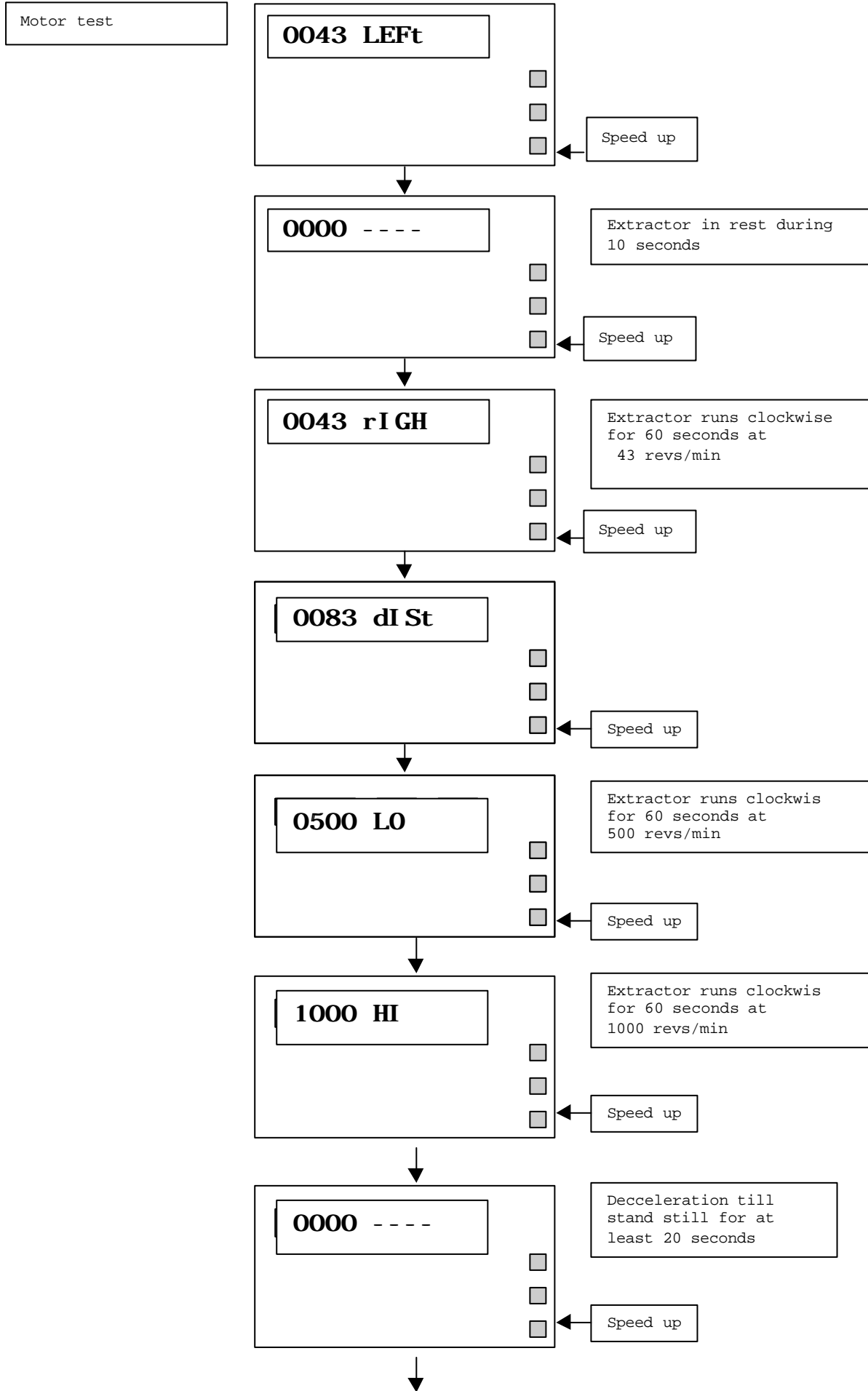
- The digital entries are: coin entry1, coin entry2, coin department detection, tilting switch, thermic safety motor or frequency converter, revolution counter and door contact. Every time an entry is activated a led illuminates.(See diagram)
- Opening the door and turning the extractor allows testing of the revolution counter: the respective led blinks at the pulse of the rotational speed.

Diagram of test program:

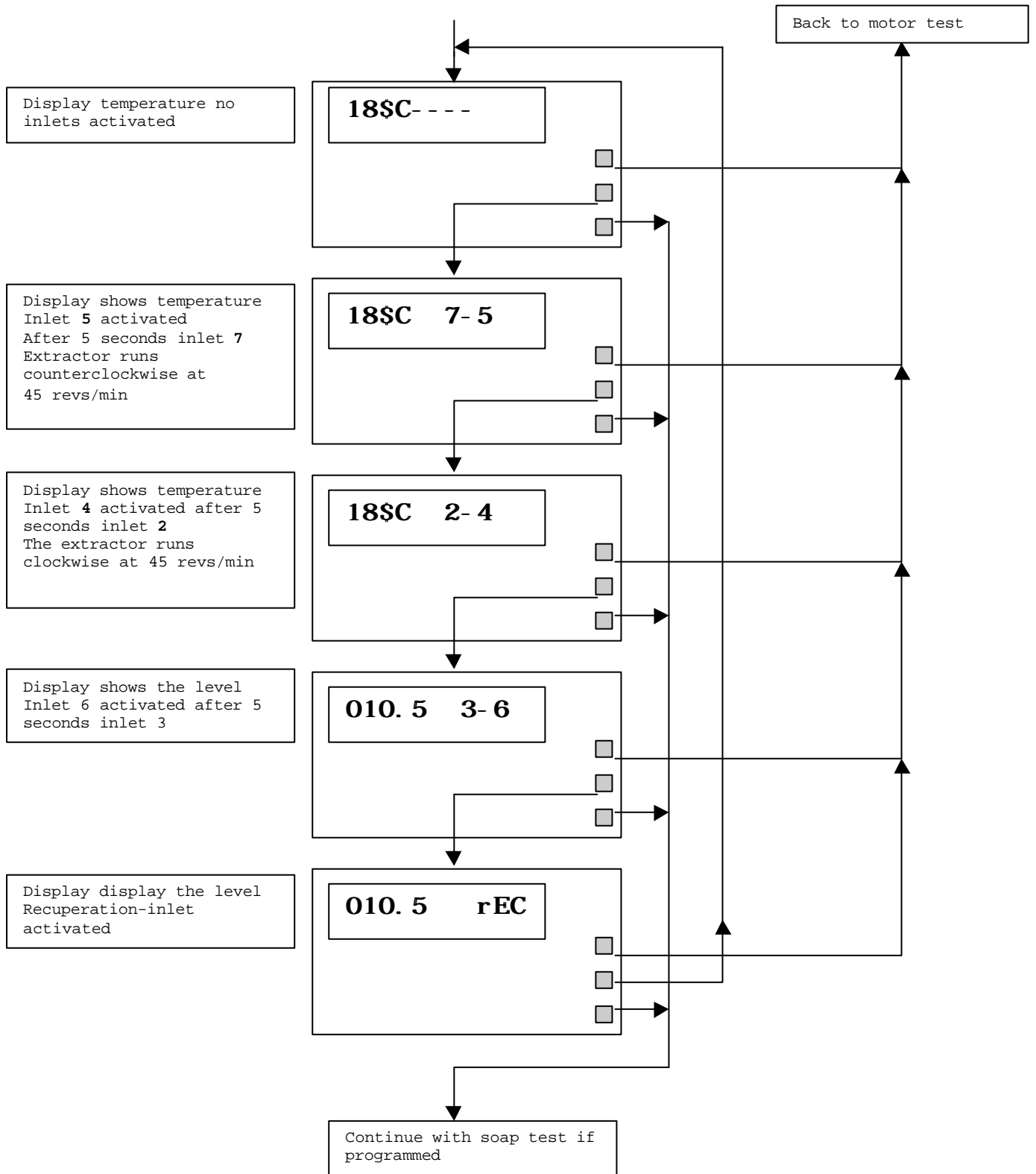
→ Remove all linen from the machine and open the door before starting the test program.



→ The rotational speed is only valid on machines with speed regulator.

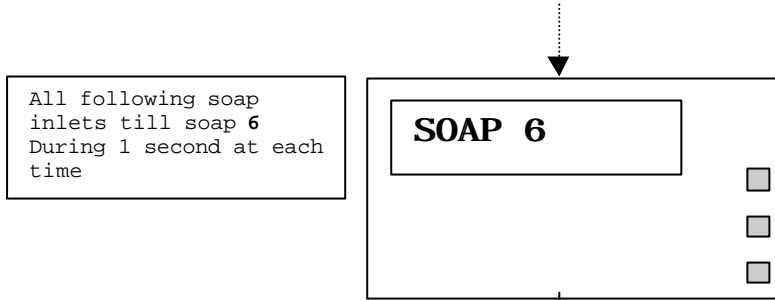
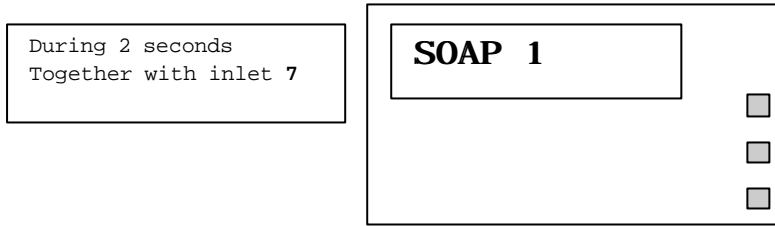


Testing the inlet valves

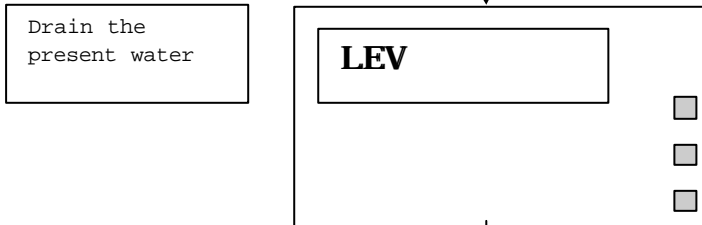
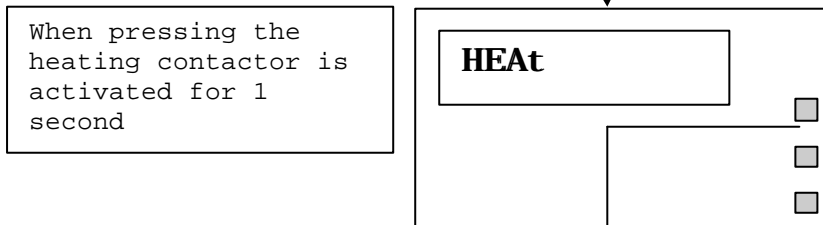
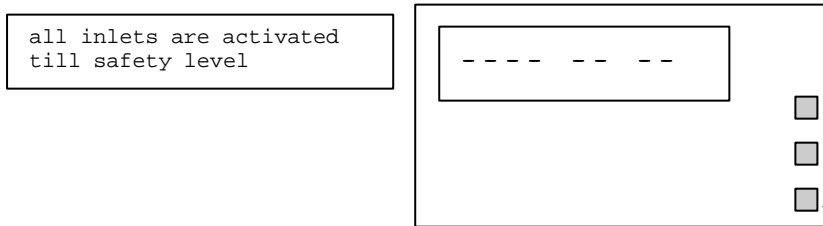


Testing the soap outlets

→ only if programmed in SIGMA ORGANISER



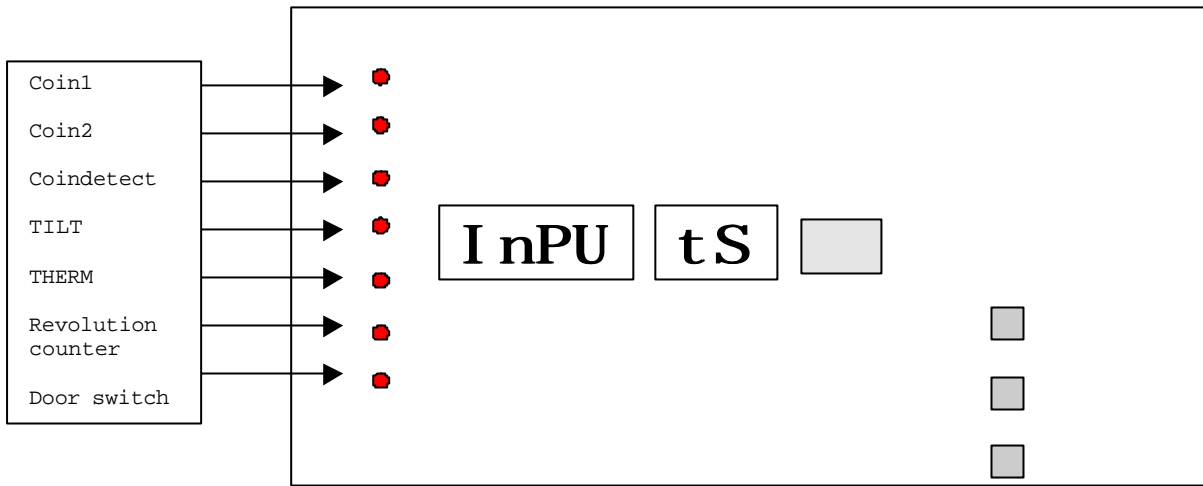
Testen heating contactor



Skip heating test

Door is unlocked

Testing the digital inlets





5. Notes

Following notes are related to three parts of the memory:

- Startup - or BOOT-memory. This is a program, permanently programmed in the EEPROM at delivery. When **Boot 100** appears on the display, the program is executed in the boot-EPROM. Other memories can be loaded on the spot via an optical connection in the control panel.
- The program memory contains data concerning the functioning of the machine. The software version of this data is displayed at the startup. **IPSO 100** appears , indicating version **1.00**.
- The data memory contains the washing data: temperatures, levels, speeds etc.
- If the program code seems to fail, **Code Err** appears. The program code should be reloaded.
- If the data memory is deficient, **datA Err** appears . The right washing data should be loaded.
- After these two error messages have appeared , the control proceeds with **Boot 100** and expects the loading of data. The right number shows the version number of the boot EPROM.

Press **ECO** and hold. Press **SELECT** shortly.

When there are no error messages, ----

Appears shortly

Possible messages are:

- E3** If the EEPROM memory contains a faulty value, E3 appears.
The program display shows the program number related to the faulty value.
- E4** When the desired level has not been reached within 15 minutes.
- E5** When the desired level has not been reached within 80 minutes.
- E6** When the door lock has been opened during operation.
- E7** Safety level has not been reached when draining the water within 5 minutes.
- E8** The temperature sensor gives a signal that temperature is below 5°C or above 95° and is most likely defective (if this occurs at normal environmental temperature)
- E9** The control has given a signal 5 times during the same cycle of the thermic motor safety. (THERM)
- EA** During extraction 15 attempts have been made , with no success.
- Eb** The TILTING circuit is permanently interrupted.




SIGMA ORGANISER




1. Installing the software

This software can be used on PC's on which Windows™ 95 or more recent versions have been installed.

1.1 Installing by means of discs

- Start the SETUP.EXE program on disc 1 via Windows™ explorer.
- Enter your name, company name and pass word. This pass word is given by IPSO. This information should be entered correctly, please take notice of lowercase and uppercase as well as punctuation marks. You have entered your name and company name at the time you requested a pass word.
- After reading the first disc, the installation program asks you for the second one.
- The program is installed in SIGMA folder, if this is not changed by you during the installation procedure.
- Go to → start → Program's → sigma → 

1.2 Installing by means of CDROM

- If you're installing the program via CDROM, it is sufficient to insert the CDROM in the drive, the installation program will start automatically.
- The program is installed in SIGMA folder, if this is not changed by you during installation procedure.
- Go to → start → Program's → sigma → 



2

2 Structure of the washing program

- A washing program consist usually of a number of cycles such as: prewashing, main wash cycle, first rinsing cycle, second rinsing cycle, last rinsing cycle.
- With these cycles the following parameters have to be set: time in minutes, water inlets, water level, temperature, extraction speed, washing pulse, (possible cool down), and water drainage between middle and final extraction.
- From this followed the idea to put together a washing program out of separate cycle, in which, per cycle, all these values can be set.
- These cycles are called 'sections' and are the material for the washing program.
- The complete washing data of a machine consist of a number of programs, free to choose, each having its own number of sections, free to choose.
- At the most 100 programs can be developed, each program having it own number of sections. For this purpose, a total of 1000 sections is available.

The following display shows the programs as cards. The program names appear in the upper form.

The sections of the program receive there name in the lower form.

The screenshot shows the 'Sigma wash organiser' software interface. At the top, there is a menu bar with 'File', 'Edit', 'Tools', 'Config', 'Communication', and 'Help'. Below the menu is a toolbar with various icons for file operations and settings. The main interface is divided into several sections:

- Program and Section Naming:** 'Programname' is set to 'Program 1' and 'Sectionname' is set to 'Section1'.
- Parameter Settings:**
 - Wash time:** 0 minutes.
 - Temperature:** 0°C, with options for 30°C, 40°C, 60°C, and 90°C.
 - Level:** 0, with options for Eco, Low, High, and Overflow.
 - Actiontime:** 12 minutes.
 - Stoptime:** 3 minutes.
 - Washspeed:** 40, with 'Wash' and 'Gentle' options.
 - Spin:** 1, with 'Draintype' and 'Spintime' (500) settings.
 - Drain:** 'Drain1' and 'Drain2' options.
 - Cool/Speed:** 'Cool Temp1' (0) and 'Speed1' (1) in °C/min; 'Cool Temp2' (0) and 'Speed2' (1) in °C/min.
- Soap LED's:** Checkboxes for Soap A, B, C, and D. 'Goto' is 0, 'Intermediate retries' is 5, and 'Final retries' is 15.
- LEDs:** Radio buttons for LED1 through LED6.
- Inlets:** A diagram showing connections for inlets 4, 5, 6, 7, 2, and 3 to a central unit labeled A, B, C, and D.

At the bottom, the status bar displays 'Machinetype not defined!' and 'Program: 1'.



3 The main menu and the toolbar

the upper strip on the SIGMA ORGANISER display is an important part of the program.



the main menu contains the functions to be executed with programs and cycles. At the same time, these functions are, and more quickly, accessible via buttons on the toolbar. There are six submenus, each with its own function group.

3.1 The file menu

The first submenu is the File menu, it contains:



- **N**ew: Start with a new blank program set
- **O**pen: Open a consisting program set
- **S**ave: Save the actual program set
- **S**ave **A**s: Save the current program set under another name
- **P**rint: Print the current values
- **P**rint **S**etup: Choose the printer settings
- **E**xit: Quit the program

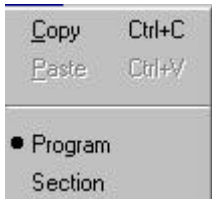
The major functions in this menu are accessible via the first group of buttons:



in the toolbar with corresponding functions new, open, save en print.

3.2 The edit menu

The second group contains the functions applicable per program-structure



- Copy the selected program or cycle
- Paste the copied program or part
- Select editing the programs
- Select editing the cycles

These functions are accessible in the second group of buttons:



In the toolbar with corresponding functions: Working with the programs, working with cycles, cut, copy and paste.

3.3 Add, insert, and deleting programs or sections

You can process the structure of the washing data via this menu.

If the first program has been filled in completely, you can start the next program. For this purpose, the program needs to be created first.

Add program	F2
Insert program	F3
Delete program	F4
Add section	F5
Insert section	F6
Delete section	F7
Check sections	

- Add a program tab at the end
 - Add a program tab at the right of the selected program
 - Remove the selected program
-
- Add a section tab at the end
 - Add a section tab at the right of the selected program
 - Remove the selected program
-
- Control all section on failures or mistakes and electricity and water use.



In the toolbar with the corresponding functions:

Add a program at the end, add a program at the right next to the selected one, remove the selected program.

Add a section at the end, add a section at the right of the selected section, remove the selected section.

If this second program is a lot like the first one, the first can be copied into the second one. (see earlier).

3.4 Configuring of the machine

The configuration display is called here.

This display is of major importance. It contains all setting to be made in order to typify the machine used.

Machine configuration

Section Machine list

Hardware configuration

Machine Type: HW 64 Drain1: Valve

Inlet Type: (COLD SOFT) (WARM) (COLD HARD) Drain2: Pump

Soap option: No soap Heat kW: 9

Cold water inlets: 15 °C 20 L/min Soft water inlets: 15 °C 20 L/min Hot water inlets: 60 °C 20 L/min Recup inlets: 0 °C 0 L/min

Software configuration

Coinoptions: Coin1: 20, Coin2: 5, Decimal: 0000

Start method: Pushbutton start/stop Startup program: 1

Temperature: CELSIUS Temp Hysteresis: 3

Cyclus: Full cycle 2 Soap flushtime: 0

ECO: Level Soap flushdelay: 0

Time correction: Distribution speed: 82
G-force: 1.99

Machinetype: HW 64 Diameter 590 mm Depth 315 mm Offset 50 mm Frequency Inverter

The display has two windows: The upper windows sets fixed data concerning the machine. The lower window is related to the software.

When choosing a machine, start with filling in the type number.

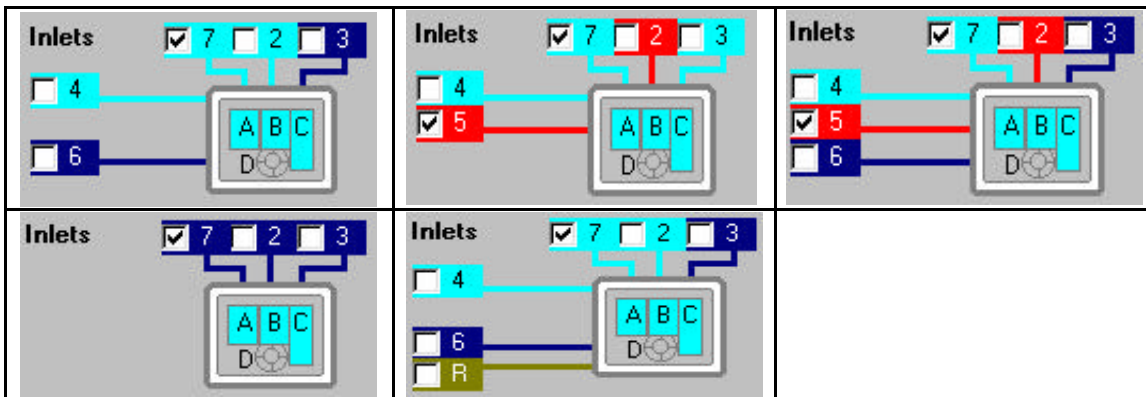
Machine Type

Only machines that can be found in the selection bar can be set. Please contact IPSO, if your machine cannot be found in the list. If possible, this program can be added, in a new software version.

Now it is time to choose the inlet types:

Inlet Type

Examples of existing types of inlets:



Choose the installed drain - facility:

Drain1
 Drain2

3.4.1 Calculating the washing time

The total washing time is calculated on the basis of these data: The time needed to reach the temperature set is dependant upon the temperature of the water used. For that purpose it is very important to set this time accurately, just like the flow rate.

Cold water inlets: °C L/min
 Soft water inlets: °C L/min
 Hot water inlets: °C L/min
 Recup inlets: °C L/min

A second important entry for calculating the washing time is the heating capacity:

Heat kW

3.5 Software-settings

In the lower panel the following is set:

3.5.1 Start method

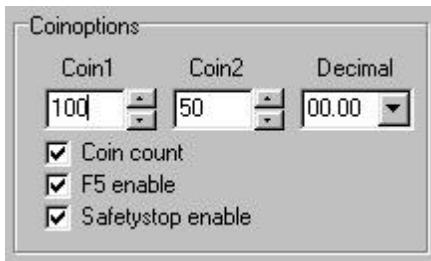
Start method

There are several ways of starting a machine:

- **Pushbutton start/stop:** Pressing the START - button starts the machine (see SIGMA manual).
- **Coin/Token:** Paying a certain amount, starts the machine (via coin switch coin1 en coin2).
- **Remote start:** The machine is validated from a distance by coin2. **STA** blinks on the display. The user starts the machine via the start button or via the push button connected to coin1.
- **Remote PAY:** This way of starting up the machine is identical to the previous one, yet **PAY** blinks on the display.

3.5.2 Coin settings

If you opted for local payment, the value of coin1 and coin2 has to be set. This is the value of the coin, taking no account of the decimal point which has to be set in a separate window.

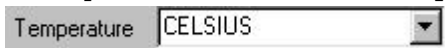


Following options are available:

- **Coin count:** the amount of the inserted coins is counted when this option is activated.
- **F5 enable:** function F5 can be chosen. If the machine is set as payable, there's no function selection provided. Still, F5 can be made functional if this option is marked.
- **Safetystop enable:** in case of emergency, the machine can be stopped by pressing the start button for 5 seconds.

3.5.3 Temperature designation

Here you can set what is displayed on the left display group:



- **Celsius:** the temperature is displayed and expressed in °C, on the control box as well as in the setting program.
- **Fahrenheit:** The temperature is displayed and expressed in °F, on the control box as well as in the setting program.
- **Celsius no display:** the temperature in the setting program is mentioned in °C, the machine shows no value.
- **Fahrenheit no display:** the temperature in the setting program is in °F, the machine shows no value however.
- **Celsius selected:** the temperature in the setting program is in °C, the machine however shows no target temperature.
- **Fahrenheit selected:** the temperature in the setting program is expressed in °F, the machine however shows no target temperature.

3.5.4 Functioning of the cycle contact

The cycle contact can be used as follows:



- **Full cycle:** the cycle contact is locked at the start of the program and opened at the end of it.
- **Start pulse:** At the start of the washing program, the cycle contact for the set time (in seconds) is closed.
- **End pulse:** At the end of the washing program, the cycle contact for the set time (in seconds) is closed.

3.5.5 ECO functioning

The lower button start the ECO functioning as follows:



- **No function:** the ECO button has no ECO - function.
- **Level:** Using the eco-key lowers the water level.
- **No section1:** via the eco-key, the first section is omitted.
- **Level default:** the eco-key lowers the level, the function is already activated as the machine starts running.
- **No section1 default:** via the eco-key, the first section is omitted. The machine activates this function, even when in dwelling position.
- **Level default LED:** The eco-key lowers the level, the function is already activated as the machine starts running. The ECO led illuminates when this option is not activated.
- **No section1 default LED:** via the eco-key, the first section is omitted. The machine activates this function, even when in dwelling position. The ECO led illuminates when this option is not activated.

3.5.6 Other settings



- **Startup program:** the machine selects this program in its dwell time.
- **Temp Hysteresis:** The value in degrees Celsius. Suppose the temperature is set to 40°C. The machine heats up until this temperature is reached. The heating is reactivated when the temperature of the water has dropped the number of degrees hysteresis.
- **Soap flushtime:** the inlets are activated during a couple of seconds after the use of liquid soap or additive. This time is set in seconds.
- **Soap flushdelay:** After the same number of seconds has passed again, the control flushes another second, after the use of liquid additive. (in order to remove the last tiny drop).
- **Distribution speed.** This is the extraction speed for equal partition of the linen. This value is set to the rotational speed which corresponds with a G-force of 2G, in line with the diameter of the extractor. This is a supposed value. This value can be entered freely (This is not recommended).