

Programming and Configuration Manual

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Tumble dryer

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The manufacturer reserves the right to make changes to design and component specifications.

1 Safety Precautions



The machine is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the machine.

The machine is not to be used if industrial chemicals have been used for cleaning.

Do not dry unwashed items in the machine.

Items that have been soiled with substances such as cooking oil, acetone, alcohol, petrol, kerosene, spot removers, turpentine, waxes and wax removers should be washed in hot water with an extra amount of detergent before being dried in the machine.

Items such as foam rubber (latex foam), shower caps, waterproof textiles, rubber backed articles and clothes or pillows fitted with foam rubber pads should not be dried in the machine.

Fabric softeners or similar products should be used as specified by the fabric softener instructions.

The final part of a drying cycle occurs without heat (cool down cycle) to ensure that the items are left at a temperature that ensures that the items will not be damaged.

Remove all objects from pockets such as lighters and matches.

WARNING. Never stop the machine before the end of the drying cycle unless all items are quickly removed and spread out so that the heat is dissipated.

Adequate ventilation has to be provided to avoid the back flow of gases into the room for appliances burning other fuels, including open fires.

Exhaust air must not be discharged into a flue which is used for exhausting fumes from appliances burning gas or other fuels.

The machine must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the machine.

If the machine has a lint trap this has to be cleaned frequently.

The lint must not be accumulated around the machine.

Gas heated tumble dryer:

The machine is not to be installed in rooms containing cleaning machines with perchloroethylene, TRICHLOROETHYLENE or CHLOROFLUOROCONTAINING HYDROCARBONS as cleaning agents.

If you can smell gas:

- Do not switch on any equipment
- Do not use electrical switches
- Do not use telephones in the building
- Evacuate the room, building or area
- Contact the person responsible for the machine



All external equipment which is connected to the machine must be CE/EMC-approved and connected using an approved shielded cable.



In order to prevent damage to the electronics (and other parts) that may occur as the result of condensation, the machine should be placed in room temperature for 24 hours before being used for the first time.

2 General

This manual is intended for personnel with the authority to adjust parameters in the machine's existing programs, programming coin meters, reading statistics and configuring certain interfaces between the machine and the user. Programming is achieved by using menus on the display while the machine is in service mode.

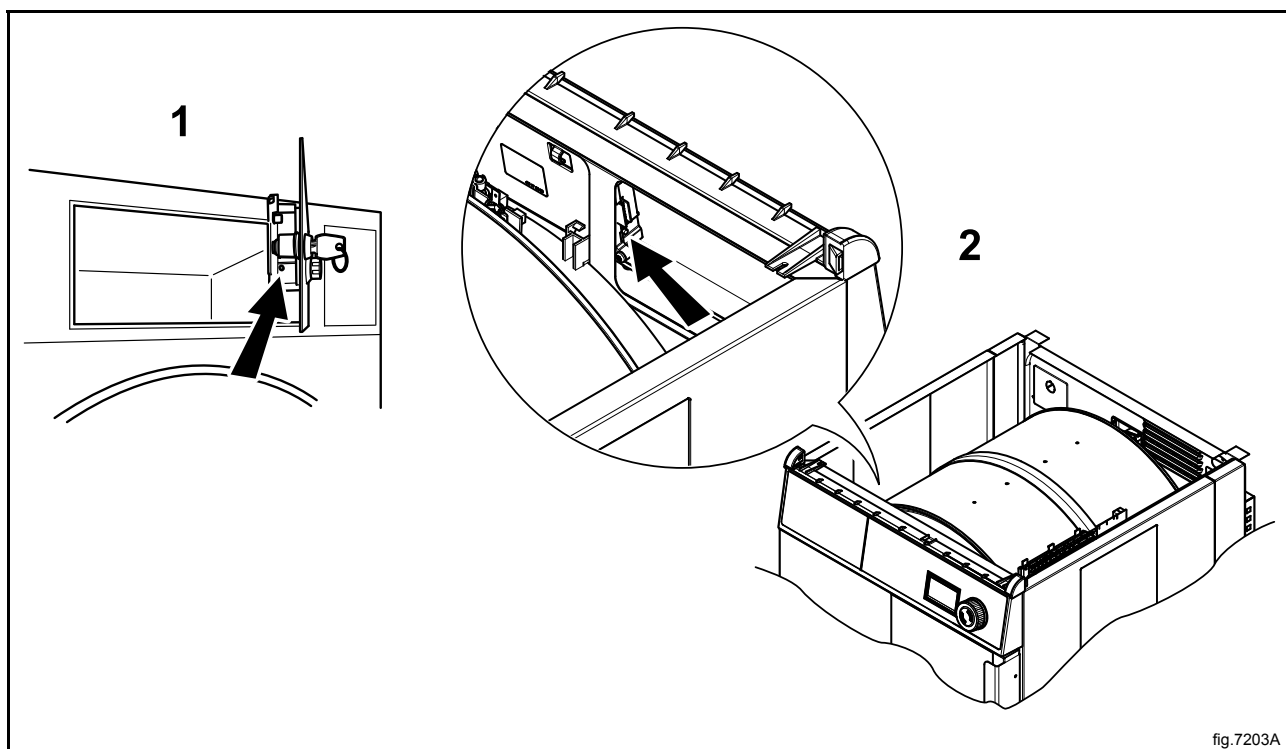
This manual lists all available menus and submenus and a description of those. Depending on machine model and program, not all of the menus might be available on your type of machine.

2.1 Activating service mode

Service mode is activated by pressing the service button.

The service button is found at one of the following locations:

1. At the door on the operating panel.
2. Behind the operating panel. The panel on top of the machine needs to be removed.



When pressing the service button the machine software will switch to its service mode.

The service mode can also be accessed from the control knob, by a long press. From this view however, not all of the menus will be available.

2.2 Abbreviations

Abbreviation	Explanation
MCU	Motor Control Unit
DLCU	Door Lock Control Unit
COM	Communication
CW	Clock-wise
CCW	Counter clock-wise
OH	Over Heated
RMC	Residual Moisture Control

3 Service menu

The service menu is used to facilitate troubleshooting the machine. It is for example possible to:

- control the machine functions individually
- control the sensor signals to the CPU board
- check the communication in the machine control system
- check the display

When the machine is in service mode the display lists the submenus available in the **SERVICE MENU**.

SERVICE MENU
FUNCTION TEST
CONFIGURATION
PRICE PROGRAMMING
STATISTICS
PROGRAM PARAMETERS
SYSTEM

4 Function test

Activate the **FUNCTION TEST** menu.

SERVICE MENU
FUNCTION TEST
CONFIGURATION
PRICE PROGRAMMING
STATISTICS
PROGRAM PARAMETERS
SYSTEM

The display will now show the following submenus:

- **ACTIVATE OUTPUTS**
- **SHOW INPUTS**
- **MCU**
- **DLCU STATUS**
- **INTERNAL COM.**
- **EXTERNAL COM.**
- **DISPLAY TEST**

4.1 ACTIVATE OUTPUTS

Activate the **ACTIVATE OUTPUTS** menu.

The display will now show the functions that can be activated:

- **FAN MOTOR**
- **DRUM MOTOR CW**
- **DRUM MOTOR CCW**
- **HEATING 1**
- **HEATING 2**
- **GAS ERROR RESET**
- **SLOT BLOCKING**
- **PROGRAM RUN**
- **CONDENSER PUMP**

Make the selected function active or inactive.

1 = Active

0 = Inactive

X = Not available on the machine

Z = The machine is prepared for the function on an extra I/O board but not activated

4.2 SHOW INPUTS

Activate the **SHOW INPUTS** menu.

The display will now show the functions that can be activated:

- O.H. INLET AIR
- O.H. OUTLET AIR
- DOOR CLOSED
- VACUUM
- O.H. DRUM MOTOR
- O.H. FAN MOTOR
- INLET AIR TEMP.
- OUTLET AIR TEMP.
- RMC
- DRUM MOTOR
- MOTOR
- GAS ERROR
- CONDENSER TANK
- COIN 1
- COIN 2
- PRICE REDUCTION
- START/STOP
- FREE START
- MACHINE STOP
- BLOCK START ACTIVE
- JUMPER 1
- JUMPER 2
- JUMPER 3

Make the selected function active or inactive.

1 = Active

0 = Inactive

X = Not available on the machine

Z = The machine is prepared for the function on an extra I/O board but not activated

4.3 MCU

Not implemented.

4.4 DLCU STATUS

Not implemented.

4.5 INTERNAL COM.

Not implemented.

4.6 EXTERNAL COM.

Not implemented.

4.7 DISPLAY TEST

Not implemented.

5 Configuration

Activate the CONFIGURATION menu.

SERVICE MENU
FUNCTION TEST
CONFIGURATION
PRICE PROGRAMMING
STATISTICS
PROGRAM PARAMETERS
SYSTEM

The display will now show the following submenus:

- LANGUAGE SETTINGS
- TIME/DATE
- USER INTERFACE
- MACHINE ADDRESS
- YOUR PASSWORD
- I/O CONFIGURATION
- CONFIG. 1
- CONFIG. 2
- RESTORE SETTINGS

General for all parameters/settings/values:

Save = Long press

Edit = Turn

Exit = Double press

If there is a changeable value, the lowest and highest values that can be set are listed below the changeable value.

5.1 LANGUAGE SETTINGS

Activate the **LANGUAGE SETTINGS** menu.

The display will now show the following submenus:

- **DEFAULT LANGUAGE**
- **SECOND LANGUAGE**
- **LANGUAGE TIMEOUT**
- **ALLOW LANGUAGE CHANGE**

DEFAULT LANGUAGE

Set the language to be shown when the machine is started. (The available languages are shown in a list). The program unit will return to this language if the machine is not used during the period specified in the **LANGUAGE TIMEOUT** menu.

SECOND LANGUAGE

Set the language to be shown as the second language.

The display will switch between the default language and the second language at the time interval set in **LANGUAGE TIMEOUT** menu.

LANGUAGE TIMEOUT

Set the time after which an unused machine should return to the default language and return to the program selection. Note that if a second language is set in **SECOND LANGUAGE** menu the set time in **LANGUAGE TIMEOUT** is used as the time interval the display will switch between the default language and the second language.

The time can be set in minutes and seconds.

The pre-set value is 2 minutes.

ALLOW LANGUAGE CHANGE

Decide if language change is allowed or not in the user interface.

YES = language change is allowed

NO = language change is not allowed

5.2 TIME/DATE

Not implemented.

5.3 USER INTERFACE

Activate the **USER INTERFACE** menu.

The display will now show the following submenus:

- **SHOW°C**
- **DISPLAY CONTRAST**
- **BACKLIGHT TIME**
- **BUTTON CLICK**
- **PROGRAM END BEEP TIME**

SHOW°C

Select if all the temperature values are to be displayed in °C or °F.

YES = all temperature values displayed in °C

NO = all temperature values displayed in °F

DISPLAY CONTRAST

Set the contrast value of the display.

The contrast of the display can be adjusted to adapt to the prevailing light in the room.

The pre-set value is 57.

BACKLIGHT TIME

Set the time that will pass before the display will reduce the backlight illumination.

The time can be set in minutes and seconds.

The pre-set value is 30 seconds.

BUTTON CLICK

Select if the machine should give a sound for each new position when the buttons on the control panel/control knob is turned and pressed or not.

YES = sound

NO = no sound

PROGRAM END BEEP TIME

Set the time that the buzzer shall beep when a program has ended.

The time can be set in minutes and seconds.

The pre-set value is 10 seconds.

0 = no beep.

5.4 MACHINE ADDRESS

Set the address of the machine if the machine is to be connected in a network.

The pre-set value is 0. All boards will answer to address 0.

5.5 YOUR PASSWORD

Select if some of the menus shall be password protected or not. The menus that will be protected by this password are: **PRICE PROGRAMMING**, **PROGRAM PARAMETERS**, **LANGUAGE SETTINGS**, **USER INTERFACE**, **YOUR PASSWORD** and **CONFIG. 1**.

Set the desired password.

The password can be changed at any time.

0000 = no password.

5.6 I/O CONFIGURATION

Activate the **I/O CONFIGURATION** menu.

A password is needed to continue. The factory password is 7491.

The display will now show the following submenus.

- **LIST ALL I/O BOARDS**
- **SETUP ALL I/O BOARDS**
- **ADD/REMOVE I/O BOARD**

LIST ALL I/O BOARDS

All the I/O boards in the machine are listed on the display.

1 = active I/O board

0 = inactive I/O board

SETUP ALL I/O BOARDS

After replacing an I/O board or in instances where an I/O board has been added to the machine, the new I/O board must be set up in order to activate the function options.

The function options of the I/O board are controlled by the parameter software loaded on the relevant program device.

Set up the I/O boards one by one by pressing the service button on the board. Follow the instructions on the display.

ADD/REMOVE I/O BOARD

Add or remove selected I/O board.

A new I/O board that has been set up needs to be added in this menu in order to function. (If the machine software is prepared for an extra I/O board).

Add or remove the I/O boards one by one by pressing the service button for each I/O board.

Note!

I/O boards that the machine must have to function can not be removed.

5.7 CONFIG. 1

Activate the CONFIG. 1 menu.

The display will now show the following submenus:

- SHOW°C
- AUTO START PAID
- AUTO PROG. PAID
- BLOCK START ACTIVE
- BUTTON CLICK
- DEFAULT LANGUAGE
- SECOND LANGUAGE
- ALLOW LANGUAGE CHANGE
- LANGUAGE TIMEOUT
- COIN 1
- COIN 2
- TIME PER COIN
- DECIMAL IN PRICE
- PRICE REDUCTION
- PROGRAM END BEEP TIME
- DISPLAY CONTRAST
- BACKLIGHT TIME
- TIMEOUT DISPLAY
- DEFAULT TRIANGLE OPT.
- YOUR PASSWORD
- LONG PRESS TIME LIMIT
- CLEAN FILTER MESSAGE
- STARTS ON DOOR CLOSING
- SHOW LOAD FEW ITEMS

SHOW°C

The information about this menu is in **USER INTERFACE** chapter.

AUTO START PAID

A selected program number will start as soon as full price is paid for and the door is closed in a coin operated machine.

Note!

If input for block of start button is active in such a way that start is impossible through the control knob, program start by feeding coin shall also be blocked. The coin slot shall also in this case be blocked.

YES = active

NO = not active

AUTO PROG. PAID

Program number one will start automatically as soon as full price is paid for in a coin operated machine. No program selection from the operator is needed. Program number one is the first program presented to the operator on the display in the program selection menu.

YES = active

NO = not active

BLOCK START ACTIVE

Select if it should be possible to block the start of a program with the control knob via a separate input. (Function used by external booking systems).

YES = active

NO = not active

BUTTON CLICK

The information about this menu is in the **USER INTERFACE** chapter.

DEFAULT LANGUAGE

The information about this menu is in the **LANGUAGE SETTINGS** chapter.

SECOND LANGUAGE

The information about this menu is in the **LANGUAGE SETTINGS** chapter.

ALLOW LANGUAGE CHANGE

The information about this menu is in the **LANGUAGE SETTINGS** chapter.

LANGUAGE TIMEOUT

The information about this menu is in the **LANGUAGE SETTINGS** chapter.

SET COIN 1 VALUE

The information about this menu is in the **PRICE PROGRAMMING** chapter.

SET COIN 2 VALUE

The information about this menu is in the **PRICE PROGRAMMING** chapter.

TIME PER COIN

The information about this menu is in the **PRICE PROGRAMMING** chapter.

DECIMAL IN PRICE

The information about this menu is in the **PRICE PROGRAMMING** chapter.

PRICE REDUCTION

The information about this menu is in the **PRICE PROGRAMMING** chapter.

PROGRAM END BEEP TIME

The information about this menu is in the **USER INTERFACE** chapter.

DISPLAY CONTRAST

The information about this menu is in the **USER INTERFACE** chapter.

BACKLIGHT TIME

The information about this menu is in the **USER INTERFACE** chapter.

TIMEOUT DISPLAY

Set the time after which the machine should reset a program selection that has not started.

The time can be set in hours, minutes and seconds.

The pre-set value is 1 minute.

DEFAULT TRIANGLE OPT.

Decide which one of the triangle options that shall be used as pre-selection.

YOUR PASSWORD

The information about this menu is in the **YOUR PASSWORD** chapter.

LONG PRESS TIME LIMIT

Set the time that the control knob needs to be pressed in when saving.

The time is set in seconds.

The pre-set value is 4 seconds.

CLEAN FILTER MESSAGE

Set the time that the text "**WHEN FINISHED — CLEAN THE LINT FILTER**" shall be shown on the display.

The text is visible on the display when the door is opened after a finished program.

The time is set in seconds.

The pre-set value is 60 seconds.

STARTS ON DOOR CLOSING

Decide if the program shall start automatically when the door is closed both when a program is fully paid for and after a pause.

YES = active

NO = not active

SHOW LOAD FEW ITEMS

Set the time that the text "**LOAD ONLY FEW ITEMS**" shall be shown on the display.

The text is visible on the display when "**Care program**" has been selected.

The time is set in seconds.

The pre-set value is 5 seconds.

5.8 CONFIG. 2

Activate the CONFIG. 2 menu.

A password is needed to continue. The factory password is 7491.

The display will now show the following submenus:

- BACKLIGHT MIN. VALUE
- BACKLIGHT MAX. VALUE
- TIMEOUT VACUUM
- ECOPOWER STARTUP TIME
- ECOPOWER TEMP. LOW
- ECOPOWER TEMP. HIGH
- ECOPOWER EXTRA TIME
- ECOPOWER ENABLE TEMP.
- RMC CALIBR. TEMP.
- RMC CALIBR. FACTOR
- MIN COOLING TIME OFFS.
- MAX COOLING TIME OFFS.
- MIN COOLING TEMP. OFFS.
- MAX COOLING TEMP. OFFS.
- MIN IN. AIR TEMP. OFFS.
- MAX IN. AIR TEMP. OFFS.
- MIN OUT. AIR TEMP. OFFS.
- MAX OUT. AIR TEMP. OFFS.
- MIN RMC STOP VALUE
- MAX RMC STOP VALUE
- MIN END TEMP. VALUE
- MAX END TEMP. VALUE
- MIN DRYING TIME OFFSET
- MAX DRYING TIME OFFSET
- MAX MOTOR SPEED OFFS.
- MOT. SPEED CHANGE STEP
- TEMP. CTRL. ENABLE TEMP.
- TEMP. CTRL. DELTA TIME
- TEMP. CTRL. DELTA TEMP.
- CHANGE PASSW. CONF. 1

BACKLIGHT MIN. VALUE

Set the minimum value that the display backlight can be adjusted to.

The value is set in %.

The pre-set value is 20 %.

BACKLIGHT MAX. VALUE

Set the maximum value that the display backlight can be adjusted to.

The value is set in %.

The pre-set value is 90 %.

TIMEOUT VACUUM

Set the time that shall pass before the error code "TIMEOUT VACUUM" is activated.

The time is set in seconds.

The pre-set value is 12 seconds.

ECOPOWER STARTUP TIME

Set the time that shall pass before the EcoPower function is enabled.

The time is set in seconds.

The pre-set value is 90 seconds.

Recommended range: 1–15 minutes. Values set out of range may deteriorate the performance of the machine.

ECOPOWER TEMP. LOW

Set the temperature for **ECOPOWER TEMP. LOW** function.

The pre-set value is 55°C.

ECOPOWER TEMP. HIGH

Set the temperature for **ECOPOWER TEMP. HIGH** function.

If the outlet temperature is above this temperature after **ECOPOWER STARTUP TIME**, EcoPower is disabled.

Also used to calculate "adjust for small loads" if the temperature is between **ECOPOWER TEMP. LOW** and **ECOPOWER TEMP. HIGH**.

The pre-set value is 65°C.

ECOPOWER EXTRA TIME

Set the extra time before the temperature is lowered to **ECOPOWER ENABLE TEMP.** after it has reached "high temp."

The time is set in seconds.

The pre-set value is 600 seconds.

Recommended range: 5–15 minutes. Values set out of range may deteriorate the performance of the machine.

ECOPOWER ENABLE TEMP.

Enable temperature for EcoPower. (Temperature and extra drying time (+ “adjust for small loads”) is fulfilled.

The pre-set value is 45°C.

Recommended range: 40–50°C. Values set out of range may deteriorate the performance of the machine.

RMC CALIBR. TEMP.

Calibration temperature for RMC.

RMC CALIBR. FACTOR

Calibration factor for the RMC value.

MIN COOLING TIME OFFS.

Set the minimum offset value allowed in the **PARAMETER PROGRAM** menu for cooling time (i.e. the maximum time that the cooling time should be able to be **reduced** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MAX COOLING TIME OFFS.

Set the maximum offset value allowed in the **PARAMETER PROGRAM** menu for cooling time (i.e. the maximum time that the cooling time should be able to be **increased** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MIN COOLING TEMP. OFFS.

Set the minimum offset value allowed in the **PARAMETER PROGRAM** menu for cooling outlet temp. (i.e. the maximum temperature that the cooling outlet temp. should be able to be **reduced** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MAX COOLING TEMP. OFFS.

Set the maximum offset value allowed in the **PARAMETER PROGRAM** menu for cooling outlet temp. (i.e. the maximum temperature that the cooling outlet temp. should be able to be **increased** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MIN IN. AIR TEMP. OFFS.

Set the minimum offset value allowed in the **PARAMETER PROGRAM** menu for inlet temp. (i.e. the maximum temperature that the cooling inlet temp. should be able to be **reduced** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MAX IN. AIR TEMP. OFFS.

Set the maximum offset value allowed in the **PARAMETER PROGRAM** menu for inlet temp. (i.e. the maximum temperature that the cooling inlet temp. should be able to be **increased** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MIN OUT. AIR TEMP. OFFS.

Set the minimum offset value allowed in the **PARAMETER PROGRAM** menu for outlet temp. (i.e. the maximum temperature that the cooling outlet temp. should be able to be **reduced** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MAX OUT. AIR TEMP. OFFS.

Set the maximum offset value allowed in the **PARAMETER PROGRAM** menu for outlet temp. (i.e. the maximum temperature that the cooling outlet temp. should be able to be **increased** with, in the **PARAMETER PROGRAM** menu). (Overall limit for parameter changes).

MIN RMC STOP VALUE

Set the minimum offset value allowed in the **PARAMETER PROGRAM** menu for RMC in %. (Overall limit for parameter changes).

MAX RMC STOP VALUE

Set the maximum offset value allowed in the **PARAMETER PROGRAM** menu for RMC in %. (Overall limit for parameter changes).

MIN END TEMP. VALUE

Set the minimum offset value allowed in the **PARAMETER PROGRAM** menu for dry temp. stop value. (Overall limit for parameter changes).

The minimum outlet temperature that must be reached before the machine stops (on machines with autostop).

MAX END TEMP. VALUE

Set the maximum offset value allowed in the **PARAMETER PROGRAM** menu for dry temp. stop value. (Overall limit for parameter changes).

The maximum outlet temperature that must be reached before the machine stops (on machines with autostop).

MIN DRYING TIME OFFSET

Set the minimum offset value allowed in the **PARAMETER PROGRAM** menu for min. drying time. (Overall limit for parameter changes).

If a parameter value is set lower than this value the original value for a program will be used.

MAX DRYING TIME OFFSET

Set the maximum offset value allowed in the **PARAMETER PROGRAM** menu for max. drying time. (Overall limit for parameter changes).

If a parameter value is set higher than this value the original value for a program will be used.

MAX MOTOR SPEED OFFS.

Not implemented.

MOT. SPEED CHANGE STEP

Not implemented.

TEMP. CTRL. ENABLE TEMP., TEMP. CTRL. DELTA TIME and TEMP. CTRL. DELTA TEMP.

Those functions are dependent on each other according to the following:

Temperature control for “outlet air rises too fast in the machine”.

Enable temp. is set as start temperature. Below this temperature no action is taken for “fast temperature rise”.

Delta time is a time base to look for temperature rise. If the time is set to 60 seconds, the machine will look for temperature rise each 60 seconds.

Delta temp is the allowed temperature rise during the delta time.

TEMP. CTRL. ENABLE TEMP.

Set the Enable temp.

The pre-set value is 100 °C.

TEMP. CTRL. DELTA TIME

Set the Delta time.

The time is set in minutes and seconds.

The pre-set value is 1 minute.

TEMP. CTRL. DELTA TEMP.

Set the Delta temp.

The pre-set value is 9 °C.

CHANGE PASSW. CONF. 1

In this menu it is possible to see and/or change the **CONFIG. 1** password.

If a new password is set this will override the set password in **CONFIG. 1** menu.

0000 = no password.

5.9 RESTORE SETTINGS

Activate the **RESTORE SETTINGS** menu.

A password is needed to continue. The factory password is 7491.

The display will now show this menu.

- **RESET TO FACTORY**

When activating the **RESET TO FACTORY** menu the settings will be reset to factory settings.

6 Price programming

Activate the **PRICE PROGRAMMING** menu.

SERVICE MENU
FUNCTION TEST
CONFIGURATION
PRICE PROGRAMMING
STATISTICS
PROGRAM PARAMETERS
SYSTEM

The display will now show the following submenus:

- **SET COIN 1 VALUE**
- **SET COIN 2 VALUE**
- **TIME PER COIN**
- **DECIMAL IN PRICE**
- **PRICE REDUCTION**
- **SET TIME/PROGRAM**
- **PRICE/PROGRAM**
- **PRICE/OPTION**
- **PRICE/ECO.QUICK.CARE**

General for all parameters/settings/values:

Save = Long press

Edit = Turn

Exit = Double press

If there is a changeable value, the lowest and highest values that can be set are listed below the changeable value.

6.1 SET COIN 1 VALUE

Set the value for coin slot 1. (If the coin value is set to more than 0, the machine is treated as a coin operated machine).

6.2 SET COIN 2 VALUE

Set the value for coin slot 2.

6.3 TIME PER COIN

Set the time for each coin.

The time is set in hours, minutes and seconds.

The pre-set value is 10 minutes.

6.4 DECIMAL IN PRICE

Decide if the price shall be shown with or without decimal.

YES = decimal in price

NO = no decimal in price

6.5 PRICE REDUCTION

Set the requested price reduction in % of the set price.

The set price reduction is now valid for all programs and options.

Only available if activated on I/O module type 2.

6.6 SET TIME/PROGRAM

Activate the **SET TIME/PROGRAM** menu.

The display will now show the adjustable parameters.

- **NORMAL**
- **LOW**
- **NORMAL**
- **LOW**
- **NO HEATING**

Set the time for each parameter.

The time can be set in hours, minutes and seconds.

6.7 PRICE/PROGRAM

Activate the **PRICE/PROGRAM** menu.

The display will now show the programs that can be programmed with a price.

- **NORMAL**
- **LOW**
- **NORMAL**
- **LOW**
- **NO HEATING**

Set the price for each program.

6.8 PRICE/OPTION

Not implemented.

6.9 PRICE/ECO, QUICK, CARE

Activate the **PRICE/ECO**, **QUICK**, **CARE** menu.

The display will now show the options that can be programmed with a price.

- **ECO PROGRAM**
- **QUICK PROGRAM**
- **CARE PROGRAM**

Set the price for each option.

6.10 Example

Set the time to be paid for in **SET TIME/PROGRAM** menu.

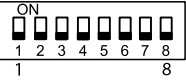
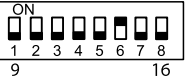
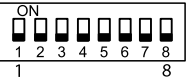
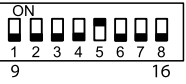
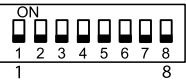
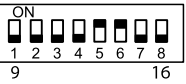
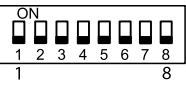
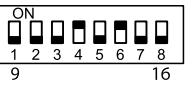
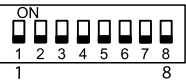
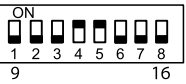
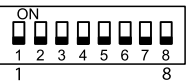
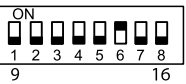
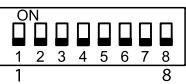
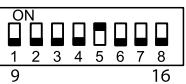
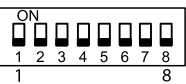
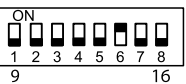
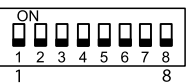
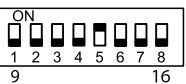
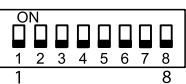
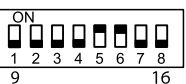
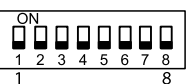
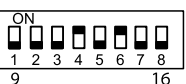
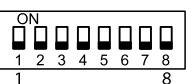
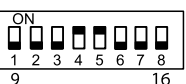
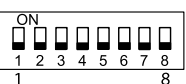
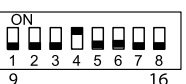
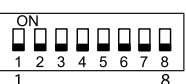
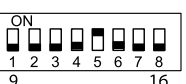
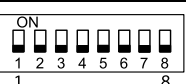
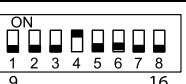
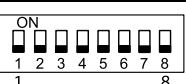
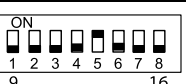
Set the price for the set time in **PRICE/PROGRAM** menu.

Set the coin value in **SET COIN 1 VALUE** (and **SET COIN 2 VALUE**).

Coin		Pulses from electronic coin meter	Programming of coin 1 (value per pulse)
0.2	AUD	2	0.10 AUD Value 10 with "decimal in price".
1	AUD	10	
2	AUD	20	
0.2	CHF	2	0.10 CHF Value 10 with "decimal in price".
0.5	CHF	5	
1	CHF	10	
2	CHF	20	
20	CZK	2	10 CZK
1	DKK	1	1 DKK
2	DKK	2	
5	DKK	5	
10	DKK	10	
0.1	EUR	1	0.10 EUR Value 10 with "decimal in price".
0.2	EUR	2	
0.5	EUR	5	
1	EUR	10	
2	EUR	20	
1	HKD	1	1 HKD
2	HKD	2	
5	HKD	5	
10	HKD	10	
1	LTL	1	1 LTL
2	LTL	2	
5	LTL	5	
1	NOK	1	1 NOK
5	NOK	5	
10	NOK	10	
20	NOK	20	
0.5	NZD	5	0.10 NZD Value 10 with "decimal in price".
1	NZD	10	
2	NZD	20	
1	SEK	1	1 SEK
5	SEK	5	
10	SEK	10	
10	TWD	1	10 TWD
50	TWD	5	

Programming coin meter microswitches

Coin meters are available in various pre-programmed versions. Each version can be programmed for two or three different currencies using microswitches; see example in the table. The table shows the various coin meter versions, currencies and microswitch settings.

Order number	Currency	Applicable in the following countries	Microswitch settings
438893002	NZD (Dollar)	New Zealand, Cook Islands, Niue, Pitcairn, Tokelau	 
	AUD (Dollar)	Australia, Christmas Island, Cocos Island, Heard Island, Kiribati, Nauro, etc.	 
438893003	EUR (Euro)	16 European countries, etc.	 
	DKK (Krone)	Denmark, Faroe Islands, Greenland	 
	NOK (Krone)	Norway	 
438893004	EUR (Euro)	16 European countries, etc.	 
	SEK (Krona)	Sweden	 
438893005	HKD (Dollar)	Hong Kong	 
	TWD (Dollar)	Taiwan	 
438893007	CHF (Franc)	Switzerland, Lichtenstein	 
	CZK (Koruna)	Czech Republic	 
	LTL (Litas)	Lithuania	 
438892009	GBP	UK	 
	EUR (Euro)	16 European countries, etc.	 
438893009	GBP	UK	 
	EUR (Euro)	16 European countries, etc.	 

Coin blocking

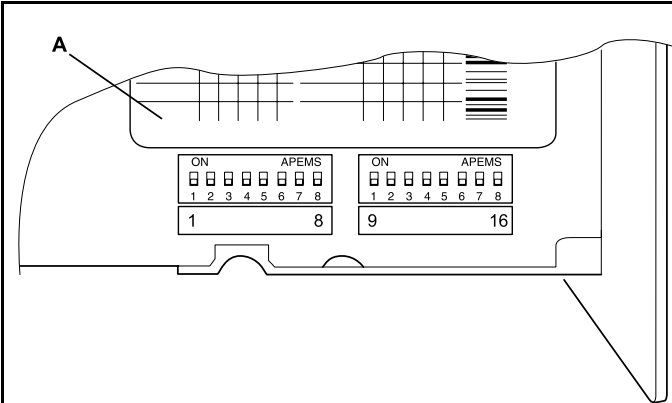
The coin meter is pre-programmed to accept all coins specified on the coin meter label (A).

Certain types of coin can be blocked by changing microswitch settings.

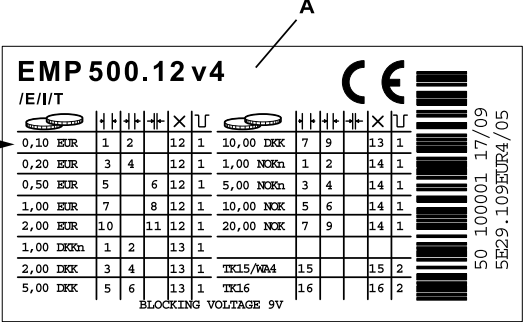
Set the microswitch associated with the coin type to be blocked to the ON position.

Example:

To block a EUR 0.10 coin: Set microswitches 1 and 2 to the ON position.



The diagram shows the internal microswitches of the coin meter. There are two sets of switches, each with an 'ON' position and an 'APEMS' label. The first set is numbered 1 to 8, and the second set is numbered 9 to 16. An arrow points from the first set of switches to the coin meter label.



EMP 500.12 v4
/E//T

	1	2	12	1		7	9	13	1
0,10 EUR					10,00 DKK				
0,20 EUR					1,00 NOK				
0,50 EUR					5,00 NOK				
1,00 EUR					10,00 NOK				
2,00 EUR					20,00 NOK				
1,00 DKK									
2,00 DKK									
5,00 DKK									

TRC15/WH4
TRC16
BLOCKING VOLTAGE 9V

50 100001 17/09
5E29.109EUR4/05

fig.7090B

7 Statistics

Activate the **STATISTICS** menu.

SERVICE MENU
FUNCTION TEST
CONFIGURATION
PRICE PROGRAMMING
STATISTICS
PROGRAM PARAMETERS
SYSTEM

The display will now show the following submenus:

- **RUN HOURS**
- **TRIP RUN HOURS**
- **SERVICE INTERVAL**
- **PROGRAM RUN**
- **TRIP PROGRAMS**
- **PROGRAM STATISTICS**
- **COIN COUNTER 1**
- **COIN COUNTER 2**
- **ERROR LOG**
- **ECOPOWER ENABLED**
- **ECOPOWER TIME**

Activate the desired menu to see available statistics.

General for all parameters/settings/values:

Reset = Long press (some of the menus can not be reset)

Back = Short press

7.1 RUN HOURS

Specifies the total time since the machine was installed and used for the first time.

The time is specified in hours and minutes.

7.2 TRIP RUN HOURS

Specifies the total time since the run hours counter was last reset.

The time is specified in hours and minutes.

7.3 SERVICE INTERVAL

Set the time that shall pass to the next service.

The time is specified in hours and minutes.

7.4 PROGRAM RUN

Specifies the total running time, in hours, since the machine was installed and used for the first time.

7.5 TRIP PROGRAMS

Specifies the total running time, in hours, since the running hours counter was last reset.

7.6 PROGRAM STATISTICS

Activate the **PROGRAM STATISTICS** menu.

The display will now show the available programs.

- **NORMAL**
- **LOW**
- **NORMAL**
- **LOW**
- **NO HEATING**

The available statistics is listed for each program such as total program runs and total run time.

7.7 COIN COUNTER 1

Shows the total number of coins inserted in coin slot 1.

7.8 COIN COUNTER 2

Shows the total number of coins inserted in coin slot 2.

7.9 ERROR LOG

Activate the **ERROR LOG** menu.

The display will now show the following submenus:

- **NUMBER OF ERRORS**
- **ERROR LOG 1**
- **ERROR LOG 2**
- **ERROR LOG MOTOR**

NUMBER OF ERRORS

Shows the total number of error codes that has been activated on the machine.

ERROR LOG 1

Shows up to 20 of the latest error codes and how many programs that have been carried out since the error code was generated. The most recent error is at the top of the list.

Activate an error code to get the following information:

- The program that was running when the error occurred.
- The program phase the machine was in when the error occurred.
- Total number of programs when the error occurred.
- Total running hours when the error occurred.

ERROR LOG 2

Shows all the error codes that have occurred and the total number that each error code has been activated.

Activate an error code to get the following information:

- Number of times the error code has been activated.
- Total number of programs when the last error occurred.
- Total running hours when the last error occurred.

ERROR LOG MOTOR

Not implemented.

7.10 ECOPOWER ENABLED

Shows how many times that EcoPower has been activated.

7.11 ECOPOWER TIME

Shows the total time that EcoPower has been activated.

8 Program parameters

Activate the **PROGRAM PARAMETERS** menu.

SERVICE MENU
FUNCTION TEST
CONFIGURATION
PRICE PROGRAMMING
STATISTICS
PROGRAM PARAMETERS
SYSTEM

The display will now show the following submenus:

- **ACTIVATED PROGRAMS**
- **PARAMETER PROGRAMMING**
- **CONFIG BUTTONS**

General for all parameters/settings/values:

Save = Long press

Edit = Turn

Exit = Double press

If there is a changeable value, the lowest and highest values that can be set are listed below the changeable value.

8.1 ACTIVATED PROGRAMS

Not implemented.

8.2 PARAMETER PROGRAMMING

The listed programs can be changed. The changes can be applied to all installed programs or just one individual program.

Activate the program to be changed:

- **NORMAL**
- **LOW**
- **NORMAL**
- **LOW**
- **NO HEATING**

Note!

The programs listed depend on machine type. This example is taken from a machine with program 6A83/6G83.

Parameters that can be changed

The listed parameters can be changed.

Activate the parameter to be changed:

- PRE-DRYING
- MAIN-DRYING
- END-DRYING
- COOLING
- ANTI CREASE

Note!

All parameters are shown, but in a time program only MAIN-DRYING, COOLING and ANTI CREASE are used.

PRE-DRYING, MAIN-DRYING and END-DRYING

- MAX INLET AIR TEMP.
- MAX OUTLET AIR TEMP.
- END VALUE RMC
- END TEMPERATURE
- MODULE TIME

Note!

All parameters are shown, but in a time program/coin program PRE-DRYING and END-DRYING are not used.

MAX INLET AIR TEMP.

Adjust the inlet air temperature.

MAX OUTLET AIR TEMP.

Adjust the outlet air temperature.

END VALUE RMC

Adjust the RMC end value.

END TEMPERATURE

Adjust the end temperature.

MODULE TIME

Adjust the module time.

COOLING

- OUTLET AIR TEMP.
- COOLING TIME

OUTLET AIR TEMP.

Adjust the outlet air temperature.

COOLING TIME

Adjust the cooling time.

ANTICREASE PARAM.

- **FAN ALWAYS OFF**

FAN ALWAYS OFF

Adjust the fan settings in **ANTI CREASE**.

YES = fan is always off

NO = fan is always on (default setting)

8.3 CONFIG BUTTONS

Not implemented.

9 System

Activate the **SYSTEM** menu.

SERVICE MENU
FUNCTION TEST
CONFIGURATION
PRICE PROGRAMMING
STATISTICS
PROGRAM PARAMETERS
SYSTEM

The display will now show the following submenus:

- **SYSTEM INFORMATION**
- **MACHINE ADDRESS**

9.1 SYSTEM INFORMATION

Shows information about the system such as software version and parameter data.

9.2 MACHINE ADDRESS

Shows the address of the machine.

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- "Lease-a-Laundry Program", which includes the laundry equipment installation and ongoing service

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