

Washer-extractor Commissioning,
Program chart, Settings
PWT 6089 Vario

INDUSTRIAL USE ONLY



To prevent accidents
and machine damage
read these instructions

before
installation or use.

en - US

M.-Nr. 09 986 720

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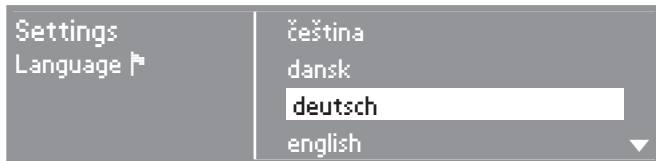
Commissioning the machine

Before using for the first time

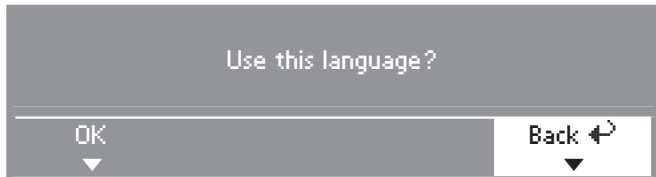
 Before commissioning the machine, ensure that it is correctly installed and connected. Please follow the operating and installation instructions.

 Commissioning must be completed to determine the settings for daily operation. Certain settings can only be altered during the commissioning process. After that, these can only be changed by a Miele service technician.

Setting the language



- Turn the jog shuttle to highlight the language of your choice.
- Press the jog shuttle to confirm your choice of language.



- Turn the jog shuttle to select *OK*, and confirm by pressing the jog shuttle.

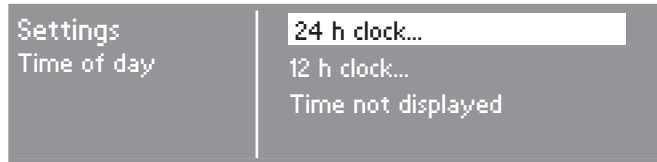
If you wish to select a different language:

- Select and confirm *Back*.

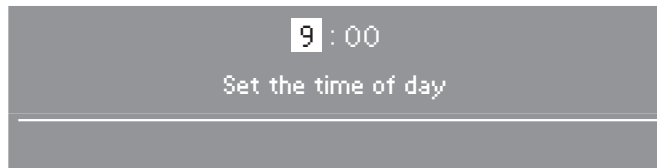
Commissioning the machine

To set the time of day

The time may already have been set at the factory. If it has, and is correct, you can skip this section. It is possible to alter the time at any stage via the *Settings* menu.



- Confirm either *24 h* or *12 h*. If you confirm *Time not displayed*, the following step will be skipped.

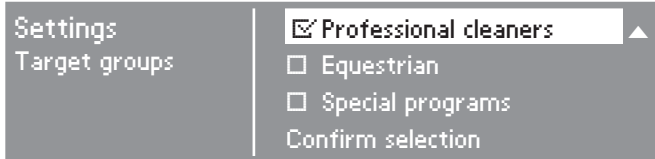


- Turn the jog shuttle to select the hour and press it to confirm your selection.
- Then set the minutes.
- Pressing the jog shuttle again saves the time of day in memory.

Commissioning the machine

Determining target groups

By selecting target groups, you are determining the program range of the washer-extractor. You can see which programs are assigned to each target group under "Program chart" later in this booklet.



- Use the jog shuttle to select and confirm none, one or several of the target groups, as required.

The 16 permanent *basic programs* are always displayed and cannot be deselected.

- A target group selected will be indicated with a tick: .
- Mark the target group programs that you have selected with a cross in the box .

- Standard
- Sport
- Hotel
- Bedding
- Disinfection
- Maintenance program
- Hygiene
- Bakers/Butchers
- Beauty salons/Health spas
- Fire service
- Professional cleaners
- Special programs

Only once you have made your selection, select *Confirm selection* and press the jog shuttle to confirm your choice.

Commissioning the machine

Each of these settings must now be confirmed (and altered if required). More details about the settings are given at the end of this booklet.

Place a cross in the box to indicate your selection, or fill in the gaps _____ as required.

Pre-wash water

This setting establishes the temperature of the water for the pre-wash.

■ Select either:

Cold

The washer-extractor is only connected to a cold water supply. Or

Hot

The washer-extractor is connected to hot and cold water supplies.

Main wash water

This setting establishes the temperature of the water for the main wash.

■ Select either:

Cold

The washer-extractor is only connected to a cold water supply. Or

Hot

The washer-extractor is connected to hot and cold water supplies.

See the paragraph "Water connection" in the "Installation and connection" section of the Operating and installation instructions.

Set contrast

The contrast for the display can be set in 10 steps.

■ Select the contrast for the display.

Step _____ (1 to 10)

Set brightness

The brightness for the display can be set in 10 steps.

■ Select the brightness for the display.

Step _____ (1 to 10)

Payment system

Setting for coin-operated machines.

■ Select the option you require.

No coin box

The *Coin mechanism lock* setting for operating the machine with a coin box is skipped.

Program operation

The machine is operated using a coin box.

Timed operation

The machine is coin-operated using a time meter.

Commissioning the machine

IK6

Serial interface RS 232 for *Interface card 6* is active in coin operation mode (an IK6 module must be fitted).

RS 232

Serial interface RS 232 is active when the machine is operated with coins (an RS 232 module must be fitted).

Coin mechanism lock

The *Coin mechanism lock* setting determines when the door is locked when operated with a coin box after the start of the program.

- Select the option you want.

Immediately

The machine locks straight away.

In 3 minutes

The machine will lock after a period of 3 minutes (default setting)


As soon as canceled

The machine locks straight away. *Cancel* will appear in the display if the start button is held in for 4 seconds. You can then cancel the program in the next 3 minutes.

3 min. after canceling

The machine will lock after a period of 3 minutes. *Cancel* will appear in the display if the start button is held in for 4 seconds. You can then cancel the program in the next 3 minutes.

Supervisor level code

The *Settings/Supervisor level* can be locked with a code to prevent it being accessed by unauthorized personnel (the Language  setting can still be altered).

- Select the option you want.

Code not required

Only some of the settings can be changed (temporary Language setting, Suds cooling, Time of day, contrast, brightness, standby, memory and temperature unit).

These settings can be changed by any user.

Other settings can only be changed by a Miele Service Technician.

Code required

A code (000) must be entered in order to change the settings. All settings (see *Settings menu*) can be changed.

Select this option if you only want users to be able to change settings via a code.

The *Language* setting can be changed temporarily by any user.

Commissioning the machine

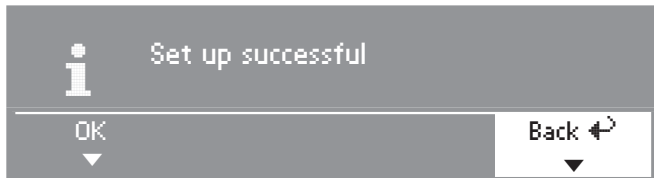
Transport struts

A message will appear in the display to remind you to remove the transport struts.

- Remove them (if this has not already been done by your fitter). Then press the jog shuttle to confirm that this has been done.

To repeat the commissioning process

If you are not certain that all of the settings are correct, you will need to repeat the commissioning process.



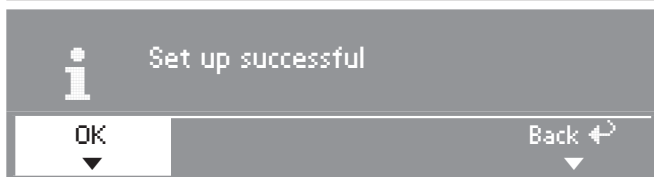
- Select *Back* and confirm your selection.

The commissioning process must then be repeated.

To finish the commissioning process

– 1. Confirm


If you are sure that all of the settings are correct.




- Confirm with *OK*.

The entry menu will appear.

Commissioning the machine

1	Cottons Uni.	60°C	Program selection...
2	Minimum iron	40°C	Settings ↗...
3	Delicates	40°C	
4	Woollens 	30°C	03:00

To finish the commissioning process completely, a first wash program must be started.

If the power to the machine is switched off before the first wash program is started (e.g. by pressing the  button), the commissioning process can be carried out again. Once a wash program that is longer than 20 minutes has been run, it is not possible to carry out the commissioning process again.

– 2. Start the first wash program

For safety reasons, spinning is not possible until the first wash program has been run. To activate the spinning function and to complete the commissioning process, you must run a wash program without laundry and without detergent.

- Open the stopcocks.
- Select *Cottons Universal* and confirm your selection.

The main menu for *Cottons Universal* will then appear.

- Press the flashing *Start* button.


After this program has finished, the washer-extractor is ready for processing laundry.

Basic programs


Cottons Hygiene		158°F - 203°F (70°C - 95°C)	Max. load 20 lbs (8 kg)
Fabric type	Cotton, linen or cotton mix fabrics, e.g. bed linen, baby clothing, underwear.		
Extra options	Pre-wash, Starch stop, Rinse hold, Intensive*, Water plus*		
Detergent	Universal detergent		
Cottons Uni.		Cold to 140°F (60°C)	Max. load 20 lbs (8 kg)
Fabric type	Cottons or cotton mix fabrics, e.g. T-shirts, pants.		
Note	For dark color fabrics use a detergent for color fabrics, or liquid detergent.		
Extra options	Pre-wash, Starch stop, Rinse hold, Intensive*, Water plus*		
Detergent	Universal detergent and detergent for color fabrics		
Minimum iron		86°F - 140°F (30°C - 60°C)	Max. load 10 lbs (4 kg)
Fabric type	Synthetic and mixed fiber garments as well as easy care cotton, e.g. shirts and blouses.		
Note	Max. spin speed 1000 rpm		
Extra options	Pre-wash, Starch stop, Rinse hold, Intensive*, Water plus*		
Detergent	Universal detergent and detergent for color fabrics		
Delicates		86°F - 140°F (30°C - 60°C)	Max. load 7 lbs (3 kg)
Fabric type	For delicate garments made of synthetic fiber, mixed fiber, rayon and easy care cotton.		
Note	Max. spin speed 600 rpm		
Extra options	Pre-wash, Rinse hold, Intensive*		
Detergent	Liquid detergent for delicates		

*Intensive and Water plus have to be set in the *Settings/Supervisor level*.

Program chart

Woollens 		Cold to 104°F (40°C)	Max. load 7 lbs (3 kg)
Fabric type	Machine-washable or hand-washable wool or wool blend fabrics.		
Note	Max. spin speed 1000 rpm		
Extra option	Rinse hold		
Detergent	Liquid detergent for machine-washable woollens		
Starch		Cold to 104°F (40°C)	Max. load 20 lbs (8 kg)
Note	The laundry (table cloths, napkins, workwear) should be washed but not treated with fabric conditioner.		
Extra option	Rinse hold		
Starching agent	Liquid starch, powder starch formulations		
Spin			Max. load 20 lbs (8 kg)
Fabric type	Articles which have been washed by hand and only need to be spun in the machine.		
Note	Please make sure you select the appropriate spin speed.		
Extra rinse			Max. load 20 lbs (8 kg)
Fabric type	Articles which have been washed by hand and only need to be rinsed and spun in the machine.		
Note	Please make sure you select the appropriate spin speed.		
Drain			
	For draining water from the machine.		
Quick wash		Cold to 104°F (40°C)	Max. load 10 lbs (4 kg)
Fabric type	Very lightly soiled fabrics which can be washed in a <i>Cottons</i> program.		
Extra option	Rinse hold		
Detergent	Universal detergent and detergent for color fabrics		

Program chart

Silks 		Cold to 86°F (30°C)	Max. load 5 lbs (2 kg)
Fabric type	Silks and other handwashable fabrics with no wool content		
Tip	Place socks, tights, bras etc. in a washing bag.		
Note	Max. spin speed 600 rpm		
Extra options	Rinse hold, Water plus*		
Detergent	Liquid detergent for delicates		
Shirts		Cold to 140°F (60°C)	Max. load 10 lbs (4 kg)
Items	Shirts and blouses		
Tips	<ul style="list-style-type: none"> – Pre-treat collars and cuffs if necessary. – Wash silk garments in the <i>Silks</i> program. 		
Note	Max. spin speed 800 rpm		
Extra options	Starch stop, Rinse hold		
Detergent	Universal detergent and detergent for color fabrics		
Intensive wash		104°F - 140°F (40°C - 60°C)	Max. load 20lbs (8 kg)
Fabric type	Heavily soiled cotton, linen or cotton mix fabrics.		
Extra option	Rinse hold		
Detergent	Universal detergent, detergent for color fabrics		

**Water plus* has to be set in the *Settings/Supervisor level* menu.

Program chart

Outerwear		Cold to 104°F (40°C)	Max. load 10 lbs (4 kg)
Fabric type	Outerwear made from microfiber		
Tips	<ul style="list-style-type: none"> – Zip up jackets before washing. – Do not use fabric conditioner. 		
Extra option	Rinse hold		
Detergent	Liquid detergent for delicates or fabric specific specialist detergent		
Proofing		86°F - 104°F (30°C - 40°C)	Max. load 10 lbs (4 kg)
Fabric type	For treating microfiber fabrics, ski wear, fine closeweave cotton garments (poplin) or tablecloths with a water and dirt resistant finish.		
Tips	<ul style="list-style-type: none"> – The items should be color sorted and freshly laundered and spun or dried before proofing. – For best results, they should be heat-treated afterwards, either in a tumble dryer or by ironing. 		
Note	Max. spin speed 1000 rpm		
Extra option	Rinse hold		
Proofing agents	<ul style="list-style-type: none"> – Only use proofing agents which are stated by the manufacturer as being "suitable for use on membrane textiles" as these consist of fluorochemical compounds. Do not use proofing agents which contain paraffin. – Add proofing agents to the fabric conditioner compartment ☼. 		
Towelling		104°F - 203°F (40°C - 95°C)	Max. load 20 lbs (8 kg)
Fabric type	Towels and toweling garments such as robes		
Tip	For dark color fabrics use a detergent for color fabrics.		
Extra options	Rinse hold		
Detergent	Universal detergent		

Standard

Dark garments		Cold to 104°F (40°C)	Max. load 10 lbs (4 kg)
Fabric type	Dark garments made from cotton or mixed fiber.		
Tip	Wash inside out.		
Note	Max. spin speed 1000 rpm		
Extra option	Rinse hold		
Detergent	Liquid detergent for color fabrics		
Denim		Cold to 104°F (40°C)	Max. load 10 lbs (4 kg)
Tips	<ul style="list-style-type: none"> – Wash denim inside out. – Denim often contains excess dye and will run during the first few washes. Wash light and dark color items separately. 		
Note	Max. spin speed 1000 rpm		
Extra option	Rinse hold		
Detergent	Liquid detergent for color fabrics		

Sport

Indoor sportswear		86°F - 104°F (30°C - 40°C)	Max. load 10 lbs (4 kg)
Fabric type	Sport and fitness clothing such as shorts and tops made from synthetic or mixed fiber		
Note	Max. spin speed 800 rpm		
Extra option	Rinse hold		
Detergent	Liquid detergent for delicates		
Outdoor sportswear		86°F - 140°F (30°C - 60°C)	Max. load 10 lbs (4 kg)
Fabric type	Sportswear made of synthetic or mixed fiber, or membrane textiles which require reproofing at the same time		
Tip	Add a suitable proofing agent to the fabric conditioner compartment		
Note	Max. spin speed 1000 rpm		
Extra options	Pre-wash, Starch stop, Rinse hold, Intensive*		
Detergent	Universal detergent or detergent for color fabrics		

*Intensive and Water plus have to be set in the Settings/Supervisor level menu.

Program chart

Hotel

Kitchen linen		140°F - 203°F (60°C - 95°C)	Max. load 20 lbs (8 kg)
Fabric type	Kitchen linen made from cotton and linen fabrics, e.g. chef's whites, catering uniforms, serving cloths, cleaning cloths.		
Tip	Select <i>Pre-wash</i> for stubborn soiling. Use a detergent containing enzymes for the pre-wash.		
Note	Includes a pre-rinse to remove coarse soiling.		
Extra options	Pre-wash, Rinse hold		
Detergent	Universal detergent		
Table linen		86°F - 140°F (30°C - 60°C)	Max. load 10 lbs (4 kg)
Fabric type	Cotton, linen and mixed fiber table linen, such as tablecloths and napkins.		
Tip	Select <i>Pre-wash</i> for stubborn soiling. Use a detergent containing enzymes for the pre-wash.		
Notes	<ul style="list-style-type: none"> – Soaking will help disperse stains (enzyme phase). – Max. spin speed 1000 rpm 		
Extra options	Pre-wash, Starch stop, Rinse hold, Intensive*, Water plus*		
Detergent	Universal detergent		
Curtains		Cold to 104°F (40°C)	Max. load 7 lbs (3 kg)
Fabric type	Curtains, including net curtains, specified as machine-washable by the manufacturer.		
Tip	Select <i>Without spin</i> for curtains which crease easily.		
Notes	– Spin speed max. 600 rpm		
Extra options	Pre-wash, Rinse hold		
Detergent	Specialist curtain detergent, universal detergent or detergent for color fabrics, in powder form		
Bed linen		140°F - 203°F (60°C - 95°C)	Max. load 20 lbs (8 kg)
Fabric type	Bed linen made from cotton or cotton mix fabrics.		
Tip	For dark color fabrics use a detergent for color fabrics.		
Extra option	Rinse hold		
Detergent	Universal detergent or detergent for color fabrics		

**Intensive* and *Water plus* have to be set in the *Settings/Supervisor level* menu.

Bedding

Pillows		104°F - 203°F (40°C - 95°C)	1-2 pillows
Items	Pillows with feather, down or synthetic fillings.		
Note	A spin cycle is carried out after water is first added in order to deflate the pillows.		
Extra option	Rinse hold		
Detergent	Liquid detergent		
Down duvets		104°F - 140°F (40°C - 60°C)	1 duvet
Items	Duvets with feather, down or synthetic fillings.		
Notes	A spin cycle is carried out after water is first added in order to deflate the duvets.		
Extra options	Pre-wash, Rinse hold		
Detergent	Liquid detergent		
Synthetic duvets		104°F - 140°F (40°C - 60°C)	1 duvet
Items	Duvets with a synthetic filling		
Note	Max. spin speed 800 rpm		
Extra options	Pre-wash, Rinse hold		
Detergent	Liquid detergent		
Natural fiber blankets		Cold to 86°F (30°C)	1 blanket
Items	Natural fiber quilts and blankets.		
Note	Max. spin speed 1100 rpm		
Extra option	Rinse hold		
Detergent	Liquid detergent; do not use detergents containing protease.		



Please observe the instructions on the wash care label. Only wash items in this machine which are indicated as being machine-washable on the label.

For best results, please do not exceed the maximum load. This can vary depending on the size of the item.

Program chart

Disinfection


Therm.DIS 15 min 185°F (85°C) Max. load 20 lbs (8 kg)	
Fabric type	Cotton, linen or cotton mix fabrics.
Notes	<ul style="list-style-type: none"> – Thermal disinfection. – The wash cycle is followed by a disinfection phase at 185°F (85°C), with a holding time of 15 minutes. – The <i>No spin</i> setting is not possible.
Extra option	Pre-wash
Detergent	Specially formulated detergent
CTh. DIS 10 min 158°F (70°C) Max. load 20 lbs (8 kg)	
CTh. DIS 20 min 140°F (60°C)	
CTh. DIS 30 min 104°F (40°C)	
Fabric type	Cotton, linen or cotton mix fabrics.
Notes	<ul style="list-style-type: none"> – Chemo-thermal disinfection programs with different temperatures and holding times. – The <i>No spin</i> setting is not possible.
Extra option	Pre-wash*
Detergent	Specially formulated detergent (registered detergents and disinfectants; standards operating in your country must be observed).

* When selecting "Pre-wash" place the detergent directly into the drum. If required, the  und  compartments can be used to add detergent for the main wash.

Maintenance program

Maintenance program 158°F (70°C) No laundry	
	For cleaning the detergent drawer, the drum, the suds container and the drainage system. <ul style="list-style-type: none"> – Detergent is required. – If you use disinfection programs on a regular basis, the <i>Maintenance prog.</i> should be frequently carried out.
Detergent	Universal detergent

Hygiene

Hygiene	No laundry
<p><i>Hygiene</i> will appear in the display if the last program selected used a temperature below 130°F (55°C) or if the <i>Spin</i> program is selected. You should then run a program that uses a temperature of at least 140°F (60°C) or the <i>Hygiene</i> program.</p>	
<p>To select the Hygiene program:</p> <ul style="list-style-type: none">– Do not put any laundry into the drum, add a little detergent to compartment  and start the program, or– Select a wash program with a temperature higher than 140°F (60°C). <p>If you ignore this advice, the next program will run as usual, and the <i>Hygiene</i> instruction will appear in the display again at the end of the program.</p>	

Program chart

Bakers/Butchers

Flour		104°F - 203°F (40°C - 95°C)	Max. load 20 lbs (8 kg)
Flour+		104°F - 203°F (40°C - 95°C)	
Fabric type	Overalls, jackets, hats and cloths made from cotton or mixed fiber.		
Tip	<ul style="list-style-type: none"> – Use a detergent containing enzymes. – Select the <i>Flour +</i> program for heavy soiling. 		
Note	Includes a pre-rinse to remove coarse soiling.		
Extra options	Pre-wash, Rinse hold		
Detergent	Universal detergent		
Grease and fat		104°F - 176°F (40°C - 80°C)	Max. load 20 lbs (8 kg)
Grease and fat+		104°F - 203°F (40°C - 95°C)	
Fabric type	Overalls, jackets, hats and cloths made from cotton or mixed fiber.		
Tip	<ul style="list-style-type: none"> – Use a detergent containing enzymes. – Select the <i>Grease and fat +</i> program for heavy soiling, and use a specialist liquid detergent. 		
Note	Includes a pre-rinse to remove coarse soiling.		
Extra options	Pre-wash, Rinse hold		
Detergent	Universal detergent		
Workwear		104°F - 176°F (40°C - 80°C)	Max. load 20 lbs (8 kg)
Workwear+		140°F - 203°F (60°C - 95°C)	
Fabric type	Heavily soiled overalls, trousers, jackets made from cotton or mixed fiber.		
Tips	<ul style="list-style-type: none"> – Use a detergent with enzymes for the pre-wash. – Select the <i>Workwear+</i> program for heavy soiling, and use a specialist liquid detergent. 		
Extra options	Pre-wash, Rinse hold		
Detergent	Universal detergent		

Beauty salons/Health spas



Towels	104°F (40°C)	Max. load 15 lbs (6 kg)
Towels+	104°F - 176°F (40°C - 80°C)	
Fabric type	Lightly soiled cotton towels	
Tips	<ul style="list-style-type: none"> – For dark color fabrics use a detergent for color fabrics. – Select the <i>Towels+</i> program for heavy soiling. 	
Extra option	Rinse hold	
Detergent	Universal detergent	
Capes	86°F (30°C)	Max. load 7 lbs (3 kg)
Fabric type	Lightly soiled capes made from synthetic fiber	
Note	Max spin speed 600 rpm	
Extra option	Rinse hold	
Detergent	Liquid detergent for delicates	

Program chart

Fire service

Masks 10min	158°F (70°C)	4 masks
Masks 20min	140°F (60°C)	
Masks 30min	104°F (40°C)	
Items	Breathing masks with head straps	
Tips	<ul style="list-style-type: none">– Chemo-thermal disinfection programs with different temperatures and holding times, for washing and disinfecting breathing masks.– Place masks in a special bag to protect them - one mask to a bag.– Place the headband around the visor to protect it.	
Note	A 400 rpm spin cycle is carried out to remove suds from the protective bags (rinse and final spin).	
Detergent	Specially formulated detergent. Please observe the manufacturer's instructions.	

Masks with connectors for helmets must not be cleaned in this machine because the visors can be damaged by the connectors.

If required, the  and  compartments can be used to add detergent for the main wash.





Program chart

Protective clothing		140°F (60°C)	Max. load 10 lbs (4 kg)
Items	Protective clothing (e.g. as used by the fire brigade), overalls, jackets, trousers		
Tips	Do not use to wash items lined in pure wool.		
Notes	<ul style="list-style-type: none"> – Program with pre-wash – Max spin speed 1000 rpm 		
Extra option	Rinse hold		
Detergent	Specially formulated detergent		
Protective clothing + proof		140°F (60°C)	Max. load 10 lbs (4 kg)
Items	Protective clothing (e.g. as used by the fire brigade) which has to be washed and re-proofed		
Tips	<ul style="list-style-type: none"> – Proofing agents must be suitable for garments used in this area of application. – Add proofing agent to the fabric conditioner compartment. – At the end of the program, items should be thermally treated in a tumble dryer to achieve optimum results. 		
Notes	<ul style="list-style-type: none"> – Program with pre-wash – Max spin speed 1000 rpm 		
Extra option	Rinse hold		
Detergent	Specially formulated detergent		
Proof protect. clothing		104°F (40°C)	Max. load 10 lbs (4 kg)
Items	Freshly washed protective clothing (e.g. as used by the fire brigade) which has to re-proofed		
Tips	<ul style="list-style-type: none"> – Proofing agents must be suitable for garments used in this area of application. – Add proofing agent to the fabric conditioner compartment. – At the end of the program, items should be thermally treated in a tumble dryer to achieve optimum results. 		
Note	Max spin speed 800 rpm		
Extra option	Rinse hold		

Remove karabiners, close velcro fastenings, wash pure wool items separately and do not wash items inside out.

Program chart

Professional cleaners

WetCare sensitive 77°F (25°C) 10 - 11 lbs (4 - 5 kg)	
Fabric type	Clothing such as suits and jackets marked with the  or 
Notes	<ul style="list-style-type: none"> – After wet cleaning, items are treated in a finishing bath. – A liquid finishing agent should be used; this should be added to the fabric conditioner compartment. – Max spin speed 1100 rpm
Extra option	Rinse hold
Detergent	Specialist liquid detergent
WetCare silks 86°F (30°C) 7 - 10 lbs (3 - 4 kg)	
Fabric type	Items that are susceptible to creasing and silk garments
Notes	<ul style="list-style-type: none"> – After wet cleaning, items are treated in a finishing bath. – A liquid finishing agent should be used; this should be added to the fabric conditioner compartment. – Max spin speed 600 rpm
Extra option	Rinse hold
Detergent	Specially formulated detergent
WetCare intensive 86°F - 104°F (30°C - 40°C) 10 - 11 lbs (4 - 5 kg)	
Fabric type	Heavily soiled clothing marked with the  or  symbol
Notes	<ul style="list-style-type: none"> – After wet cleaning, items are treated in a finishing bath. – A liquid finishing agent should be used; this should be added to the fabric conditioner compartment. – Max spin speed 1100 rpm
Extra option	Pre-wash, Rinse hold
Detergent	Specially formulated detergent

Special programs

You can create 5 special programs and name these. Enter their details in the table below:

For example:	
EXTRA+	
– Pre-wash intensive	
– Main wash intensive	203°F (95°C)
– Rinse 1	
– Rinse 2	
– Rinse 3	
– Spin	1300 rpm
– Finishing agent	

Max. load: 17.6 lbs (8 kg)

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Note

The 5 special programs have been pre-programmed with basic parameters at the factory: see "Settings/Supervisor level menu".

Relay control for external dispensing system

This washer-extractor is fitted with an adapter for an external dispensing system. The external pumps are controlled by relays in the washer-extractor. The dispensing containers must be filled with the correct detergent or chemical agents in the order specified.

	Pre-wash	Main wash 1st signal	Main wash 2nd signal	Finishing
Basic programs				
Cottons hygiene	R 1	R 2	R 5	R 4
Cottons universal	R 1	R 2	R 5	R 4
Minimum iron	R 1	R 2	-	R 4
Delicates	R 3	R 3	-	R 4
Woollens	-	R 3	-	R 4
Quick wash	-	R 2	-	R 4
Silks	-	R 3	-	R 4
Shirts	-	R 2	-	R 4
Intensive wash	-	R 2	-	R 4
Outerwear	-	R 2	-	R 6
Proofing	-	-	-	R 6
Towelling	-	R 2	R 5	R 4
Standard				
Dark garments	-	R 2	-	R 4
Denim	-	R 2	-	R 4
R 1 = Relay 1 = Pre-wash R 2 = Relay 2 = Main wash R 3 = Relay 3 = Delicates / WetCare R 4 = Relay 4 = Fabric softener / WetCare agent or surface disinfectant* R 5 = Relay 5 = Disinfecting agent or floor cleaning agent* R 6 = Relay 6 = Proofing agent * When selecting the target group <i>Buildings maintenance</i> . ** Dispense when temperature is reached.				

Relay control for external dispensing system

	Pre-wash	Main wash 1st signal	Main wash 2nd signal	Finishing
Sport				
Indoor sportswear	-	R 3	-	R 4
Outdoor sportswear	R 1	R 3	-	R 6
Hotel				
Kitchen linen	R 1	R 2	R 5	R 4
Table linen	R 1	R 2	R 5	R 4
Curtains	R 3	R 3	-	R 4
Bed linen	-	R 2	R 5	R 4
Bedding				
Pillows	-	R 2	-	R 4
Down duvets	-	R 3	-	R 4
Synthetic duvets	-	R 3	-	R 4
Natural fiber blankets	-	R 3	-	R 4
Disinfection				
Th. DES 15min	R 1	R 2	R 5	R 4
CTh. DES	R 1	R 2	R 5	R4
Maintenance program				
Maintenance program	-	R 2	-	-
Hygiene				
Hygiene	-	R 2	-	-
<p>R 1 = Relay 1 = Pre-wash R 2 = Relay 2 = Main wash R 3 = Relay 3 = Delicates / WetCare R 4 = Relay 4 = Fabric softener / WetCare agent or surface disinfectant* R 5 = Relay 5 = Disinfecting agent or floor cleaning agent* R 6 = Relay 6 = Proofing agent</p> <p>* When selecting the target group <i>Buildings maintenance</i>. ** Dispense when temperature is reached.</p>				

Relay control for external dispensing system

	Pre-wash	Main wash 1st signal	Main wash 2nd signal	Finishing
Bakers/Butchers				
Flour (+)	R 1	R 2	-	R 4
Grease and fat (+)	R 1	R 2	R 5	R 4
Workwear (+)	R 1	R 2	R 5	R 4
Beauty salons/Health spas				
Towels (+)	-	R 2	R 5	R 4
Capes	-	R 2	-	R 4
<p>R 1 = Relay 1 = Pre-wash R 2 = Relay 2 = Main wash R 3 = Relay 3 = Delicates / WetCare R 4 = Relay 4 = Fabric softener / WetCare agent or surface disinfectant* R 5 = Relay 5 = Disinfecting agent or floor cleaning agent* R 6 = Relay 6 = Proofing agent</p> <p>* When selecting the target group <i>Buildings maintenance</i>. ** Dispense when temperature is reached.</p>				

Relay control for external dispensing system


	Pre-wash	Main wash 1st signal	Main wash 2nd signal	Finishing
Fire service				
Masks 10 min	-	R 2	R 5**	-
Masks 20 min	-	R 2	R 5**	-
Masks 30 min	-	R 2	R 5**	-
Protective clothing	R 1	R 3	-	-
Protective clothing + proof	R 1	R 3	-	R 6
Proof prot. clothing	-	-	-	R 6
Professional cleaning				
WetCare sensitive	-	R 3	-	R 4
WetCare Silks	-	R 3	-	R 4
WetCare intensive	R 3	R 3	-	R 4
<p>R 1 = Relay 1 = Pre-wash R 2 = Relay 2 = Main wash R 3 = Relay 3 = Delicates / WetCare R 4 = Relay 4 = Fabric softener / WetCare agent or surface disinfectant* R 5 = Relay 5 = Disinfecting agent or floor cleaning agent* R 6 = Relay 6 = Proofing agent</p> <p>* When selecting the target group <i>Buildings maintenance</i>. ** Dispense when temperature is reached.</p>				

Relay control for external dispensing system


	Pre-wash		Main wash Block start			
	"normal"/ "intensive"	"gentle"	"normal"/ "intensive"	"gentle"	"final rinse"	"Finishing"
Special programs						
S.prog.1	R 1	R 3	R 2 + R 5	R 3	R 4	R 6
S.prog.2	R 1	R 3	R 2 + R 5	R 3	R 4	R 6
S.prog.3	R 1	R 3	R 2 + R 5	R 3	R 4	R 6
S.prog.4	R 1	R 3	R 2	R 3	R 4	R 6
S.prog.5	R 1	R 3	R 2	R 3	R 4	R 6
<p>R 1 = Relay 1 = Pre-wash R 2 = Relay 2 = Main wash R 3 = Relay 3 = Delicates / WetCare R 4 = Relay 4 = Fabric softener / WetCare agent or surface disinfectant* R 5 = Relay 5 = Disinfecting agent or floor cleaning agent* R 6 = Relay 6 = Proofing agent</p> <p>* When selecting the target group <i>Buildings maintenance</i>.</p>						

Changing default settings

Default settings can be altered to adapt the machine to different requirements.

Depending on the programmable status, the *Settings/Supervisor level* menu can be locked with a code to prevent it being accessed by unauthorized personnel (the Language  setting can still be altered).

– Code not required

Some settings are visible and can be changed by all operators via the *Settings*  menu.

– Code required

All settings may be changed upon entering a code (*Settings /Supervisor level* menu)

Please contact the Miele Service Department for details.

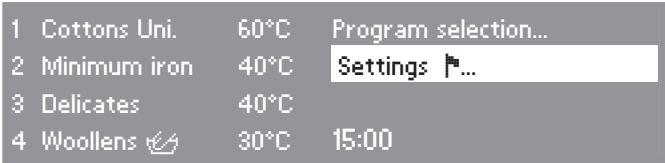
Note regarding the commissioning of the machine


The machine must be commissioned as described at the beginning of this booklet.

Settings menu

To open the Settings menu

If the Settings menu is not locked (Code not required), some of the settings may be changed.



- Select *Settings*  from the entry menu and confirm your selection with the jog shuttle.

To select a setting



- Select the setting you want to change, and confirm your selection.

If you do not make a selection in the sub-menu within approx. 15 seconds, the display will revert to the *Settings* menu.

Language

A different language setting will only apply to the program currently in use. After the program has finished the display will revert to the default language which was set in the *Settings/Supervisor level* menu.

To close the Settings menu

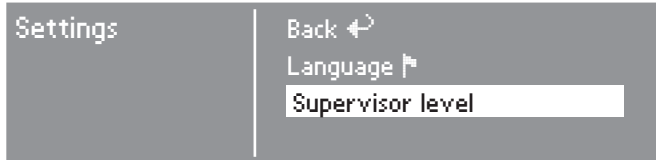
Select *Back* and confirm your selection. The display will return to the entry menu.

Settings/Supervisor level menu

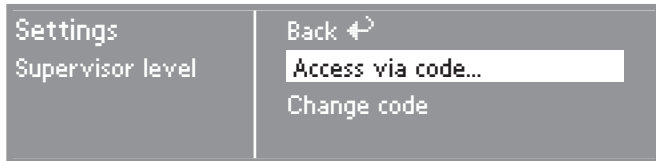
To open the Settings/Supervisor level menu

The *Settings* menu can be locked against unauthorized use (except for the *Language* option). It will then only be able to be accessed at Supervisor level by entering a code.

To select a setting



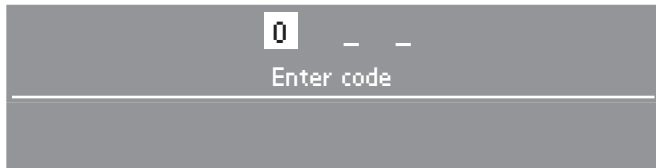
- Select *Supervisor level* and confirm your selection.



- Select *Access via code* and confirm your selection.

To enter the code

Enter the digits **0 0 0** (factory default setting). If you enter the code wrongly three times, the machine will lock out for an hour.



- Turn the jog shuttle until the first number appears. Then press it to confirm your selection of this number. Now enter the second number.
- Repeat the process until all three numbers have been entered.

Settings/Supervisor level menu

To confirm the code



- Confirm the code you have entered.




You are now in Supervisor level.

You can alter the code if you want to prevent it being accessed by unauthorized personnel (see Settings *Supervisor level*).

Settings/Supervisor level menu

Language

The display can be set to appear in one of several different languages.

To select the language you want, go to the *Languages*  sub-menu.

- If the language shown is not the one you want turn the jog shuttle to highlight the one that you do want and confirm your selection.

The flag after the word *Language* acts as a guide to prevent a language which will not be understood from being set.

If after setting a new language no further entries are made for approx. 15 seconds the display will revert to the previously set language.

To close the Settings menu

Select *Back* and confirm your selection. The display will return to the entry menu.

Sort languages

You can select the order that you want the languages available to appear in in the display if you have first selected the *International* or *International, 4 langs.* option from the *Language menu* in the Settings menu.

Suds cooling

When this is activated, additional water flows into the drum at the end of the main wash to cool the suds down. Hot suds can damage plastic drainage pipes.

Suds cooling takes place when temperatures above 158°F (70°C) are selected.

Suds cooling should be activated:

- where the drainage pipes do not comply with DIN 1986.

The machine is delivered with Suds cooling activated.

Settings/Supervisor level menu

Time of day

First select whether you want the clock displayed as a 24 hour or 12 hour clock, or to not display it at all. Then set the current time of day.

If you select to not display the clock, the Timer can be used to delay the start by up to 24 hours, i.e. it will show how many hours until the start but not the current time of day.

To select a 24 hour or 12 hour clock

- Select the clock option you want and confirm your selection.

The display will then change to the screen for setting the time of day.

To set the time of day

- Use the jog shuttle to select the hour and confirm your selection. Now set the minutes. Pressing the jog shuttle again saves the time of day in memory.

Supervisor level

You can alter the access code to the supervisor level.

- Enter the old code.
- Enter a new code.

After you have confirmed the new code, the display will change to the beginning of the *Settings* menu.

Display contrast/Display brightness

There are ten different display contrast and brightness settings.

The display contrast/brightness will change as soon as a different setting is chosen.

- Confirm your selection with the jog shuttle.

Settings/Supervisor level menu

Standby

To save energy, the display goes out after 10 minutes and the *Start* button flashes slowly.

Operating the jog shuttle or one of the short cut buttons switches the display back on again.

You have 3 options:

On

Standby comes on:

- if a program is not selected after the machine has been switched on.
- after a program has started.
- after the end of a program.

Not in current prog. (the machine is delivered with this option selected)

Standby comes on:

- if a program is not selected after the machine has been switched on.

Off

The display remains on all the time.

Memory

If an extra option has been selected for a program, or the recommended temperature or spin speed has been altered, the machine will store the changes in memory at the start of a program.

The next time this program is selected these settings will appear in the *Program selection* menu.

The memory function is not active when favorite programs are selected using the short cut buttons.

The machine is delivered with the memory function deactivated.

Temperature unit

You can choose for the temperature to be displayed in °C/*Celsius* or °F/*Fahrenheit*.

The machine is delivered with the °C option selected.

Settings/Supervisor level menu

Special programs

You can create 5 special programs and save these as favorite programs with their own names.

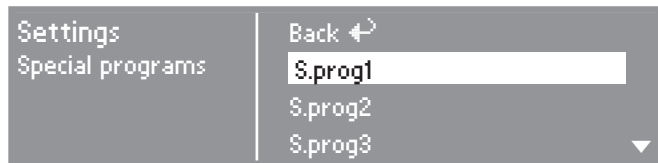
The special programs are pre-programmed with basic settings.

- Wash temperature: cold
- Spin speed: without spin
- Wash block: Main wash: short
- Extra options cannot be selected
- External detergent dispensing is not possible

Saving your options to memory and creating individual programs is described in the next few pages.

To create a special program

Special programs must first be activated under the *Target groups* setting.



- Select *S.Prog 1, 2, 3, 4 or 5*

1. To save the program name



- Confirm *Delete* to change the program name.

Settings/Supervisor level menu

- Confirm *Delete* again until the symbols you wish to delete have been removed.



- Turn the jog shuttle to move the cursor to the symbol line.
- Using the jog shuttle, select and confirm each letter or symbol in turn to create the program name.
A maximum of 7 characters may be entered.

abc/ABC

To select lower or upper case letters (short-cut button 1)

Delete

Deletes the last character entered (short-cut button 2)

Continue

To finish entering text (short-cut button 3)

To go directly to the program creation menu (see below)

Back

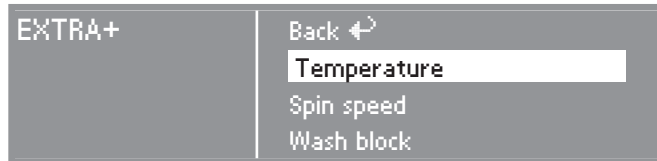
Back to the level above (short-cut button 4)

Settings/Supervisor level menu

2. Program creation menu

You can choose the program's features by changing the basic settings.

Enter the names of your special programs and their basic settings into the "Special programs" table in the "Program chart".



Temperature

- The temperature can be selected in 5° steps from cold to 203°F (95°F).

Spin speed

- The spin speed is selected in steps of 100 from *Without spin* to 1300 rpm.

Wash block

- One or more wash blocks can be selected.
- To save the special program, select "Confirm selection" at the end of the list.
- Select *Back*. The program will now appear in the *Program selection* menu.

Settings/Supervisor level menu

Favorites

You can configure the 12 programs in the basic menu for machine variant *Shortcut keys + Logo* (only in conjunction with *Controls* setting *Shortcut keys + Logo*).

You can choose programs from the machine's complete range of programs. The first three programs listed will be allocated to shortcut keys 1 to 3.

How to change a program in the list:

- Select *Favorites and confirm your selection*.
- Select a program from the list.
- Change one or more components (program name, temperature, spin speed, pre-wash).
- Press short cut button Save.

The program is saved in the list.

Logo

You can choose whether to have the "Miele Professional" logo or one of your own in the display. (The control option *Shortcut keys + Logo* has to be selected).

The "Miele Professional" logo appears as the default.

Language menu

You can select whether you want an additional welcome screen asking for a language to be selected to appear again after the end of a washing program and before the entry menu.

You have 3 options:

national

The welcome screen does not appear (default setting).

international

The welcome screen will appear and the language must then be selected. Any available language can be selected. Follow the *Sort languages* setting.

International, 4 langs.

The welcome screen will appear and the language must then be selected. One of four languages can be selected. Follow the *Sort languages* setting.

Settings/Supervisor level menu

Intensive water plus

You can choose whether you want the *Intensive* and *Water plus* extra options to be available for selection in the Extras menu.

The machine is delivered with this setting deactivated (deselected).

Water plus

This setting is used to select the water intake setting for the *Water plus* extra option.

You have 3 options:

Water plus

The water level is increased in the wash and rinse stages of the *Cottons hygiene*, *Cottons universal*, *Minimum iron*, *Silks* and *Table linen* programs (default setting).

Extra rinse

An extra rinse is introduced in the *Cottons hygiene*, *Cottons universal* and *Minimum iron* programs.

Water plus and Extra rinse

The water level is increased in the wash and rinse stages of the *Cottons hygiene*, *Cottons universal*, *Minimum iron*, *Silks* and *Table linen* programs and an extra rinse is also introduced in the *Cottons hygiene*, *Cottons universal* and *Minimum iron* programs.

Save

You can choose whether you want the Save option to appear in the main menu. The save function is required if, for example, you want to change the favorite wash programs which have been saved to the short cut buttons.

The machine is delivered with this option deactivated.

Auto load control

The machine has auto load control. The water level and the program durations are adjusted in some programs according to the load. If the auto load control is deactivated, the machine will always carry out the program sequence based on a full load.

The machine is delivered with this option activated.

Pre-wash water

You can select hot or cold water for the pre-wash. Hot water can only be taken in if the wash temperature is above 86°F (30°C).

This setting is confirmed when the machine is commissioned.

Settings/Supervisor level menu

Main wash water

You can select the type of water for the main wash. Hot water can only be only taken in if the wash temperature is above 86°F (30°C).

This setting is confirmed when the machine is commissioned.

If the machine is not connected to a hot water supply, program durations will be longer.

Rinse water

You can select type of water for the final rinse. Hot water can only be only used if the wash temperature is above 122°F (50°C).

The machine is delivered with the *Cold* water option selected.

Low water pressure

This setting can be activated to ensure problem free water intake where the water pressure is constantly low (below 14.5 psi (100 kPa)).

The machine is delivered with the *No* option activated.

Empty sensor

You can activate the *Empty sensor* option for the external liquid detergent containers so that a message appears in the display when a container is empty.

The factory default setting is *No* (no empty sensor).

Water level Cottons

You can increase the water level for the main wash in the *Cottons hygiene* and *Cottons universal* programs.

The machine is delivered with the Block parameters option selected (the water level will be controlled according to the data programmed on-site).

Water level Min. iron

You can increase the water level for the main wash in the *Minimum iron* program.

The machine is delivered with the Block parameters option selected (the water level will be controlled according to the data programmed on-site).

Pre-wash temp. Cottons

You can select the temperature you want the pre-wash to be carried out at in the *Cottons hygiene* and *Cottons universal* programs.

The machine is delivered with the Block parameters option selected (the temperature will be controlled according to the data programmed on-site).

Settings/Supervisor level menu

PW duration Cottons

The pre-wash duration can be changed in the *Cottons hygiene* and *Cottons universal* programs.

The machine is delivered with the Block parameters option selected (the wash duration will be controlled according to the data programmed on-site).

Wash time Cottons

You can increase the wash duration for the main wash in the *Cottons hygiene* and *Cottons universal* programs.

The machine is delivered with the Block parameters option selected (the wash duration will be controlled according to the data programmed on-site).

Wash time Min. iron

You can increase the wash duration for the main wash in the *Minimum iron* program.

The machine is delivered with the Block parameters option selected (the wash duration will be controlled according to the data programmed on-site).

Target groups

You can extend your choice of programs by activating target group programs.

The target group programs selected will be added to the basic programs. Further information can be found in "Program chart".

- Standard
- Sport
- Hotel
- Bedding
- Disinfection
- Maintenance program
- Hygiene
- Bakers/Butchers
- Beauty salons/Health spas
- Fire service
- Professional cleaners
- Special programs

Only once you have made your selection, select *Confirm selection* and confirm.

Settings/Supervisor level menu

Pre-wash

You can choose for pre-wash to be carried out with every *Cottons hygiene*, *Cottons universal* and *Minimum iron* program or to select it each time via the Extras menu.

The machine is delivered with the *Select from menu* option activated.

No. rinses Cottons

You can alter the number of rinses which are carried out in the *Cottons hygiene* and *Cottons universal* programs.

- 2 rinses (factory default setting)
- 3 rinses
- 4 rinses
- 5 rinses

No. rinses Minimum iron

You can alter the number of rinses which are carried out in the *Minimum iron* program.

- 2 rinses (default setting)
- 3 rinses
- 4 rinses

Pre-rinse Cottons

A pre-rinse can be carried out in the *Cottons hygiene* and *Cottons universal* programs.

The machine is delivered with this option deactivated.

Pre-rinse Minimum iron

A pre-rinse can be carried out in the *Minimum iron* program.

The machine is delivered with this option deactivated.

Spin free of charge

If your machine is fitted with a payment system, you can release the *Spin* program (Free of charge).

The machine is delivered with this option deactivated.

Settings/Supervisor level menu

Coin mechanism lock

If your machine is fitted with a payment system, you can activate the lock immediately after the start of the program, or three minutes after it has started.

You have four options:

immediately

The machine locks straight away.

in 3 minutes

The machine will lock after a period of 3 minutes (default setting)

as soon as cancelled

The machine locks straight away. *Cancel* will appear in the display if the start button is held in for 4 seconds. You can then cancel the program in the next 3 minutes.

3 min. after cancelling

The machine will lock after a period of 3 minutes. *Cancel* will appear in the display if the start button is held in for 4 seconds. You can then cancel the program in the next 3 minutes.

Demo program

This can be used by dealers to demonstrate the machine in their showrooms.

When *On* is selected, the machine can be used, depending on its programmable status, but it is not possible to start a program.

No deterg.

If your machine is fitted with an external dispensing system, the system will not be used when *No detergent* is selected. You can choose whether or not you want *No detergent* to appear as an option in the *Extras* menu.

The machine is delivered with this option deactivated.

Temp. reduction

At altitudes over 9842 ft (3000 m) the suds temperature for the Cottons programs can be reduced by 5° to prevent it boiling too early.

The machine is delivered with this function deactivated.

Settings/Supervisor level menu

Controls

You can change the way the machine is used with this setting.

Caution: If "WS with short cut keys" or "Short cut keys + Logo" mode has been selected the *Settings* menu is not accessible after exiting the *Settings/Supervisor level* menu. You cannot then get back into *Supervisor level*. If you need to access it please contact the Miele Service Department.

D with short cut keys
(default setting).

WS with short cut keys

There are 4 pre-set (Favorite) programs only available. These cannot be altered by the user.

- Before activating this setting you must first select the 4 favorite programs. See "Favorites".

Shortcut keys + Logo

(special version for laundry salons).

To configure programs for the basic menu on variant *Shortcut keys + Logo* go to *Favorite programs*. You can use your own logo. Follow the *Logo* setting.

Delay start

Using the timer you can set the time you wish a program to finish at (see the *Timer* section).

The timer can be set to *active* or *inactive*.

The default setting is *inactive*. If the *Timer* button is pressed the display will only show the program duration, the time the program is estimated to finish at and the current time of day.

To close the Settings menu

- Select *Back* and confirm your selection. The display will return to the entry menu.

Settings/Supervisor level menu

Settings which can only be changed during the commissioning process

If you wish to change any of these settings at a later stage, please contact the Miele Service Department.

Payment system

A coin box needs to be fitted.

– No coin box

The machine is operated using a coin box. The user purchases a wash program.

– Program operation

The machine is coin-operated using a time meter. The user purchases a time-controlled program.


– RS 232

Serial interface RS 232 is active when the machine is operated with coins (an RS 232 module must be fitted).

– IK6

Serial interface RS 232 is active in IK6 mode when the machine is operated with coins (an IK6 and RS 232 module must be fitted).

Supervisor level code

The *Settings/Supervisor level* menu can be locked with a code to prevent it being accessed by unauthorized personnel (the Language  setting can still be altered).

– Code not required

Only some of the settings can be changed (temporary Language setting, Suds cooling, Time of day, contrast, brightness, standby, memory and temperature unit).

These settings can be changed by any user.

– Code required

A code must be entered in order to change the settings. All of the settings may be changed.

Select this option if you only want users to be able to change settings via a code.

Please have the model and serial number
of your appliance available before
contacting Technical Service.



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