

# Operating instructions

Control MIKE 3 - CE

for MEIKO dishwashers

**K160 / BTA160/240**

TRANSLATION OF THE "ORIGINAL OPERATING INSTRUCTIONS"

The original operating instructions can be downloaded from: <https://partnet.meiko.de>

**VERSION  
> Customer <**



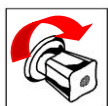


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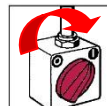
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# 1 Short operating instructions

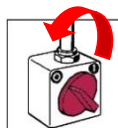


Open the stop valve in the water pipe.



Switch on the power supply from the building.

Membrane keypad	Meaning	Display
	Starting condition: Machine off!	Machine off
	The machine's wash-tanks are filled and heated by pressing the "Filling - Heating" key.	Filling
	The tank heating elements switch on as soon as, the minimum water level has been reached.	Filling / Heating WT1 45°C KSP1 80°C
	As soon as all the tanks are full, the display shows:	Heating WT1 45°C KSP1 80°C
	The machine is "ready for operation" as soon as, the required tank temperature is reached.	Ready for operation WT1 65°C KSP1 82°C
	Washing is started by pressing the "Wash" key.	Operation WT1 65°C KSP1 82°C
	The programme selection buttons ( I – II ) currently have no function.	
	Washing is interrupted by pressing the "Pause Wash" key.	
	The display shows:	Ready for operation WT1 65°C KSP1 82°C
	The machine is switched off by pressing the "Machine Off" key.	Machine off



Switch the power supply from the building off.

**Clean the machine.**  
See the "Cleaning" chapter in the machine's Operating Instructions.

## 2 General information

The Operating Instructions are part of the scope of delivery of the control and must be kept in a place which is available to the machine's operating and maintenance staff at all times.

These Operating Instructions are valid from version V2.2A

Operation and maintenance may only be entrusted to staff who have previously familiarised themselves with these Operating Instructions. The manufacturer's warranty obligations are rendered null and void if the machine is improperly used.

Observe the Safety Instructions in the machine's Operating Instructions and in these Operating Instructions.

We reserve the right to make changes as part of the development process. No claims of any nature whatsoever may be derived from these Operating Instructions.

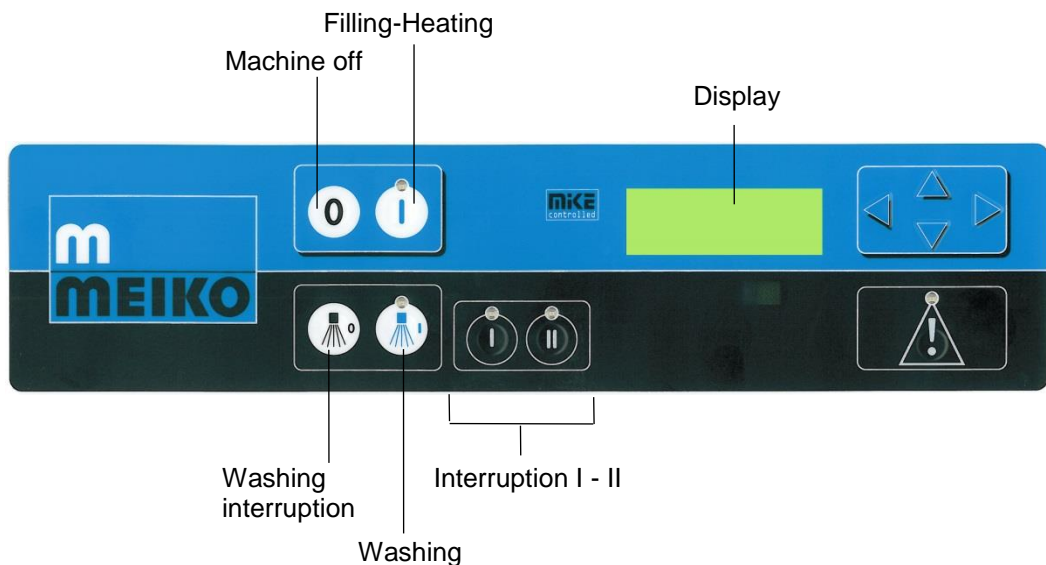
The user must read the Operating Instructions before the first time the machine is used so that he / she is familiar with the main operating functions.

## 3 Description of the MIKE 3 - CE electronic system

The multi-functional "MIKE 3 - CE" system is a programmable micro-processor system for the purpose of controlling and monitoring the operational and hygiene safety of MEIKO basket transport dishwashing machines.

The electronic system is operated by a 24 V low safety voltage.

### 3.1 Description of the membrane key-pad, operation



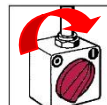


### 3.2 Operation

If the machine has been prepared for operation as described in the Operating Instructions for the machine, it may be switched on. All the steps necessary to prepare it for operation are described below.

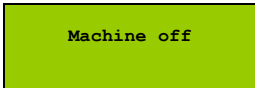


Open the stop valve in the water pipe.



Switch on the power supply from the building.

The starting point is the machine when it is switched off.  
The display shows:



All the operating steps described below may be available. However, not every machine has every operating step.

#### 3.2.1 Filling - Heating



The machine's wash-tanks are filled and heated by pressing the "Filling - Heating" key.

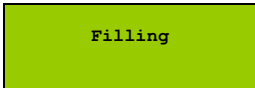
All doors and drains must be closed before the machine will fill and heat. Any open doors are indicated in the display.

"Filling-Heating key"

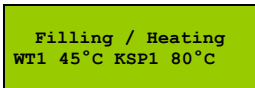
The LED of "Filling / Heating key" will flash!



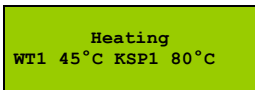
The display shows:  
The display indicates the stage the process has reached.



The tank heating elements switch on as soon as the minimum water level has been reached. The display shows:



(Exception: the temperature of the water entering the machine is already at the temperature for filling the wash tank which is programmed into the electronic system.)

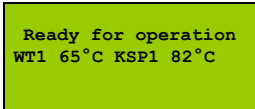


As soon as all the tanks are full, the display shows:



The display shows "Heating" until the programmed tank temperature has been reached.

After this stage the display shows:  
The LED of the "Filling/Heating key" is now illuminated permanently.



### 3.2.2 Washing



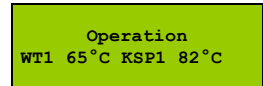
"Wash" key

Washing is started by pressing the "Wash" key.

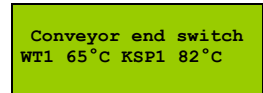
The LED of the "Wash" key is now permanently illuminated.



The display shows:

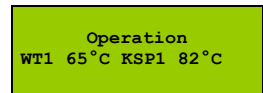


If the basket run switch at the end of the table is occupied by a basket, the following will appear on the display:

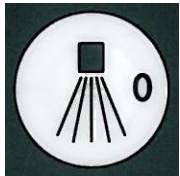


The machine automatically restarts, when the washware is removed.

The display shows:



### 3.2.3 Washing interruption



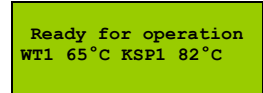
"Pause Wash" key

Washing is interrupted by pressing the "Pause Wash" key.

All functions, with the exception of the tank heating, are switched off. (Individual components may continue running.)

The machine remains ready for operation.

The display shows:



### 3.2.4 Program selection



"Programme Selection" keys

When the machine is first switched on, it always starts in programme I.

Different programmes can be selected by pressing "Programme Selection" key I, II. (Option)

The programme selected is indicated by the corresponding LED being permanently illuminated.



After washing has been interrupted, the machine restarts in the programme last set.

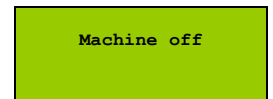
It is possible to change to a different programme (I-II) while the machine is running.

### 3.2.5 Machine off



The machine is switched off by pressing the "Machine Off" key.

The display shows:



"Machine Off"  
key

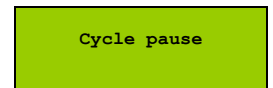
### 3.2.6 Impulse switching

If the machine is equipped with impulse switching, the first cycle runs after pressing the "Wash" key.

Then, when no further wash ware runs through the washing machine, the machine's status is switched to "cycle pause". Only the tank heater of the basket transport mechanism continues to work.

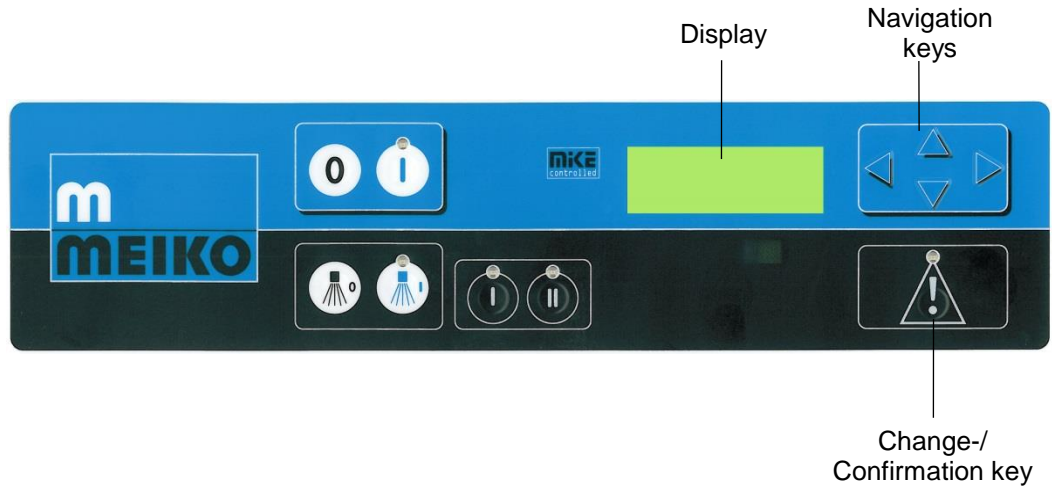
In the case of basket transport machines, the conveyor continues to run.

The display shows "Cycle pause":



The basket transport machine re-starts automatically when a new basket is loaded into the machine.

## 4 Description of the membrane keypad, navigation



### Navigation for information exchange

It is possible to read off temperatures, operating times, in every operating condition in the control's navigation level; it is also possible to read, amend and log parameters.

For the dialogue, 4 arrow key and 1 amend-/confirm key are provided.

These have the following functions :

	Entry to the information exchange dialogue
	Browse parameter list, Change value (up/down) It is possible to switch to a fast forward / back mode by pressing the key for a longer period (1 second or more) i.e. the list of values is scrolled through automatically until the key is released.
	Switch to relevant sub-menu (selection)
	<ul style="list-style-type: none"> <li>• Quit current sub-menu</li> <li>• Process interruption in the change mode (you will now be asked if you want to reject the change you have just made without saving it).</li> </ul>
	The red LED flashes to indicate a malfunction or warning. The message appears in the display.

### Further general points:

- If a key is not pressed for 4 minutes, the normal operating condition display appears.



## Navigation example: reading the tank temperature

**Note:** only the options actually available in your machine will be displayed!

The starting point is the operating condition display e.g.


```

Operation
WT1 65°C KSP1 82°C
    
```

Press the  arrow key and the following will appear in the display:


```

INFORMATION
    
```

Press the arrow key again  to go to the individual sections of the information output. The display shows:


```

* INFORMATION *
Temperatures
    
```

Press the arrow key once again  and the following will appear in the display:


```

* INFORMATION *
Temperature WT1
61°C
    
```

Pressing the arrow key again  will make the following appear in the display:


```

* INFORMATION *
Temperature KSP1
82°C
    
```

Return to the previous sub-menu by pressing the arrow key . The display shows:


```

* INFORMATION *
Temperatures
    
```

Press the arrow key again and the following  will appear in the display:



```

INFORMATION
    
```

Pressing the arrow key again  will make the operating conditions appear in the display.

```

Operation
WT1 65°C KSP1 82°C
    
```

To change the direction of navigation in the sub-menu, press the  or  arrow keys.


## 4.1 Information output

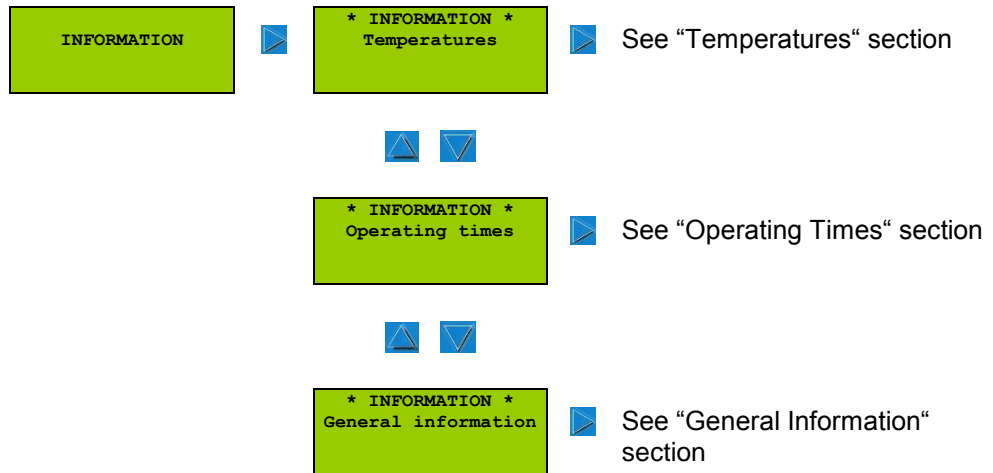
### 4.1.1 Overview of information output

**Note:** only the options actually available in your machine will be displayed!


The starting point is the operating condition display e.g.

Operation  
WT1 65°C KSP1 82°C

Press the  arrow key and the following will appear in the display:



### 4.1.2 Temperatures

\* INFORMATION \*  
Temperatures 

\* INFORMATION \*  
Temperature WT1  
66°C

The actual temperature in wash-tank 1 (WT1).



\* INFORMATION \*  
Temperature KSP1  
83°C

The actual temperature in final rinse 1 (KSP1).



\* INFORMATION \*  
Temperature Drying  
68°C

The actual temperature in the drying zone.



### 4.1.3 Operating times

\* INFORMATION \*  
Operating times



**Further general points:**  
The date on which the meter was last reset by the authorised technician.

\* INFORMATION \*  
Next maintenance in  
01.03.08 995 h

Operating hours till next maintenance



\* INFORMATION \*  
Total operation time  
01.03.08 155 h

Total operation time in hours. (From pressing the "Filling" key to pressing the "All Off" key).



\* INFORMATION \*  
Running time  
Wash pumps  
01.03.08 5 h

Operating time in hours during which the wash pump(s) was / were switched on.



\* INFORMATION \*  
Running time  
drying fan  
01.03.08 5 h

Operating time in hours during which the drying fan was switched on.

### 4.1.4 General information

\* INFORMATION \*  
General information



\* INFORMATION \*  
Order number  
0800157010

Machine order number.



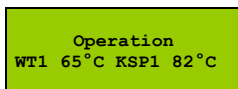
\* INFORMATION \*  
Serial number  
10092548

Machine serial number.

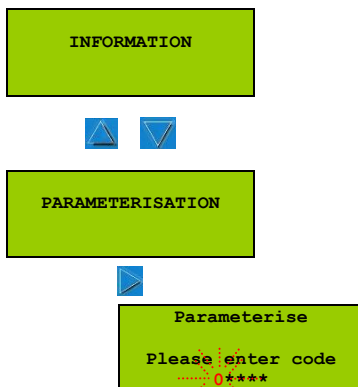
## 4.2 Parameterisation

### 4.2.1 Entry to the parameterisation level

The starting point is the operating condition display e.g.



Press the  arrow key and the following will appear in the display:


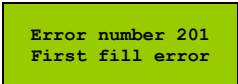
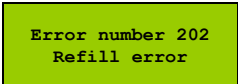
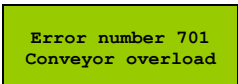


The cursor will be seen on the first figure (0 appears and flashes).

**Only authorised service personnel are allowed in this area!**

## 5 Error messages

### 5.1 Error messages - washing not possible

Text in display	Description
	Display dark Emergency stop switch has been pressed or main switch out
 Error number 201 First fill error	Water level not reached when the tank was filled for the first time; Float soiled Stand pipe was not inserted Dirt trap blocked Water flow from the building too low
 Error number 202 Refill error	Water level in wash tank not reached on refilling; Float soiled Stand pipe was not inserted Dirt trap blocked Water flow from the building too low
 Error number 701 Conveyor overload	Basket transport rail is sluggish The wash items is stuck in the transport mechanism

In such a case the malfunction must be promptly rectified. *To continue working, the machine must be restarted by pressing the "Filling / Heating" key.*



## 5.2 Error messages – limited washing capability

Text in display	Description
-----------------	-------------

Info No. 110 Maintenance needed	Maintenance due.
------------------------------------	------------------

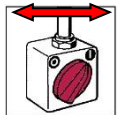
Info No. 111 Door open	Close the door, Insert cleaning flaps
---------------------------	------------------------------------------

Info No. 112 Wrong code	Correct entry code
----------------------------	--------------------

**If other error numbers / info numbers appear in the display, call the service technician!!!**

## 6 Control version

To learn the version of the MIKE 3 - CE in your machine, switch off the electricity supply briefly at the main switch and then switch on again.



When the system initialises, all the LEDs in the membrane key-pad will flash briefly.

The display shows:

MEIKO OFFENBURG  
MIKE 3 V2.2A  
2008-05-11

In this case the current version is: V2.2A



The clean solution

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