COFFEE MACHINE "32" – ELECTRONIC (ES) / MANUAL (MS)

1	Main switch
2	Heating element switch
3	Hot water knob
5	Coffee switch
6	Steam knob
7	Brewing group

1	Main switch
2	Heating element switch
3	Hot water knob
4	2nd group switch
5	Coffee switch
6	Steam knob
7	Brewing group

MODEL	GROUPS	L	P	H	BOILER
ES/MS 32	2	440	440	480	2,5 LT

WARNING / IMPORTANT

- **The machine has to be connected to an efficient earth socket. Otherwise anomalous functioning or damages may occur, affecting the proper and safe functioning;**
- **Do not cover the cup tray with clothes;**
- **Coffee machines are always equipped with a self levelling device, such a device is set so that as the inlet solenoid opens, the pump starts to ensure water circulation even with low pressure;**

GENERAL WARNINGS – IMPORTANT FOR THE INSTALLER

Keep to the instructions of installation, use and maintenance handbook, that has to be intended as an integral part of these instructions for use.
Regarding installation, placing, operating and use of the machine, please consider paragraphs 7 to 9.
Utmost importance has to be given to the instructions of paragraph 8.1: please execute all operations in the right sequence.
All machines of "32" series have to be used with softened water. Softening system is not included in the coffee machine.
On coffee machines of "32" series the groups are heated in independent way through steam boiler.

MS32: the groups are regulated through thermostat with fixed calibration (coffee timer) and work in a safely way through another separate thermostat.

ES32: groups are thermically adjustable in independent way and the dosing of the two groups are independent (they have to be adjusted on both groups).

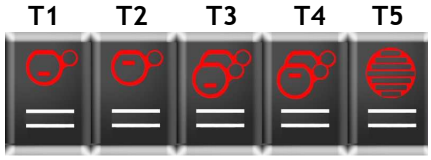
COFFEE MACHINE ES 32 – VOLUMETRIC VERSION

Volumetric delivery coffee machine with microprocessor aided control;
4 different dosages and continuous delivery on each touch pad;
STOP delivery function on 5 keys;
Independently programmable touch pads;
Boiler level check;
Touch pad aided settings for an immediate check, directly into the cups.

WARNINGS FOR INSTALLATION AND MAINTENANCE SERVICE

Electric connections

The components connected to the microprocessor-aided dosage settings work at Volt 220/240 50/60 Hz single phase
The solenoids and the rotary pumps work at volt 220/240.
Machines can be supplied for 110/120 volt 50/60 Hz system (1 and 2-group only) – upon request
In case of power fluctuations or interference, the machine may be stopped by the cut off device connected to the electronic parts. To turn it on again switch it off for a few second by acting on the main switch.



DOSAGE SETTINGS (to be performed with the machine at the right temperature)

Coffee dosages is set acting on the groups touch pads.

1) Fit a handle with ground coffee under the group as to brew 1 or 2 coffees;
2) Keep the continuous delivery button (T5) pressed for at least 5 seconds until the continuous delivery LED will blink; the other buttons will be lit.
3) Press the chosen button (e.g. long coffee T2) within 5 seconds. If no button is pressed, the programming will be aborted and the LED will stop blinking.
4) Once the desired coffee quantity will be reached, press the chosen button to stop the brewing. During programming, the T5 LED will blink, the chosen LED will stay on (e.g. T2) while the other ones will be off. Once the dosage will be set on the chosen button (e.g. T2) the T5 LED will blink and the other ones will turn on. The same will happen for any dosage settings
5) When all the buttons will be set press T5 again to save the settings.
6) Every group has to be set independently.

SAFETY – MESSAGES - FEATURES

- MAXIMUM COFFEE BREWING: APPROX. 3 LITRES
- If coffee brewing time exceeds 240 seconds the system will be automatically cut off.
- If the flowmeter sends no signals for 5 seconds, the LED of the selected dosage will blink (broken or blocked flowmeter). To stop the brewing press one of the dosage buttons.
- If the LED of T5 blinks (without programming a dosage variation), it means that the group temperature probe does not work properly and indicates therefore a working failure. In order to reset the system, turn it off and on again after 5 seconds.
- If all LED signals of touch pad 1 (left) start blinking, it means that boiler took more than 120 seconds to be filled up. Check the possible failure or fault and in order to reset the system, turn it off and on again after 5 seconds.

When the coffee machine is switched on, the group boards check if they're in working status or in stand-by.
Group boards start working with the same parameters, that were set when they have been switched off.

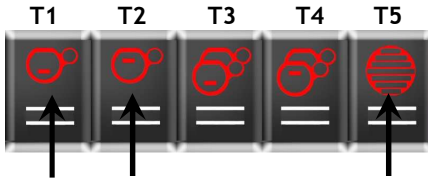
Working status: group board is working; touch pad LEDs are switched on. Through the touch pad dosages could be selected; electric main board check the group heating. The group board 1 (left group) check the level of the steam boiler.

TO THE INSTALLER

Stand-By: coffee machine is delivered with working boards and active LED touch pads. Stand-By feature has to be used by a technician in order to set the group boiler temperature. In order to activate the Stand-By feature, press T5 and after a while T3 and keep both buttons pressed, till all buttons switch off, while

GROUP BOILER TEMPERATURE SETTING

Activate the Stand-By function of the group to be set.
Press and keep pressed T3 and T4 till at least one of LED L5, L1 or L2 blink.



In order to check the set temperature it is necessary to read the blinks of each LED L5, L1 and L2 as follows:

LED L5 = "hundreds"

The temperature could be set between 85°C and 105°C. The LED should therefore blink for half a second with a pause (LED=OFF) of at least 1 second.

LED L1= "tenths"

This LED, according to the programming range, will blink with a value between zero (OFF) and nine. You will see a series of fast blinks (half second ON and half second OFF), with a pause of at least 1 second.

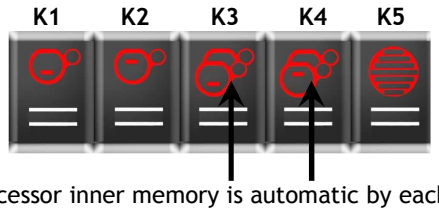
LED L2= "units"

This LED, according to the programming range, will blink with a value between zero (OFF) and nine. You will see a series of fast blinks (half second ON and half second OFF), with a pause of at least 1 second.

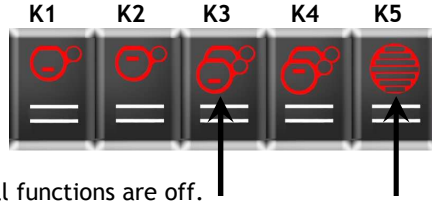
Example 1				
L5	=	1	Blink	
L1	=	0	Blinks	TSet = 105° C
L2	=	5	Blinks	

Example 2				
L5	=	0	Blinks	
L1	=	9	Blinks	TSet = 95° C
L2	=	5	Blinks	

In order to change the set value press T3 and T4. Each touch on T3 key will decrease the value of one unit. Each pressure of T4 key will increase the value of one unit.



The buffering of parameter in the microprocessor inner memory is automatic by each touch of T3 and T4 keys.
Please note that before restoring the system standard functions you have to check that the value checked by the three LEDs is the wished one. **Leave and give back the tension in order to restore the system standard functions.**
MS32 models: it is possible to set the heating of second group off through the switch 4 (light on : heated group 2 / light off : switched off group)
ES32 models: with the proper procedure on the **ES32** coffee machines.



By this setting the main board is fed, but all functions are off.
It is possible to proceed with function "Boiler Temperature Setting" (see specific paragraph).
In order to activate the board again, it is enough to press again T3 and T5 keys: all touch pad LEDs will switch on, brewing and heating functions will be working again. Stand-By function, if used and kept on the right touch pad, brings about right group switching off. It is possible to work in energy saving conditions while work is reduced.
If installing technicians fell it opportune to do that, they could inform users about the procedure to be followed to switch the right group off.