EV9376 6 output digital controller for combi electric ovens, with RTC functions, programmed switch-on and programs management version 3.00

E	ENGLISH
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1	IMPORTANT
1.1	Important

Read these instructions carefully before installation and before use and follow all recommendations for installation and for the electric connection. Keep the instructions for future consultation.

The instrument must be disposed of according to the local

Standards regarding the collection of electric and electronic



1.2 **Dimensions and installation**

appliances.

Panel, using the supplied screw brackets; dimensions in mm (in).





DIMENS.	MINIMUM	TYPICAL	MAXIMUM		
А	92.0 (3.622)	92.0 (3.622)	92.8 (3.653)		
В	92.0 (3.622)	92.0 (3.622)	92,8 (3.653)		
V/					

Warnings regarding installation

- the thickness of the panel must not exceed 4.0 mm (0.157 in)
- position the brackets as indicated in the drawing in this paragraph, moderate the coupling torque
- make sure that the working conditions (temperature of use, humidity, etc.) lie within the limits indicated in the technical data
- · do not install the instrument in proximity of heat sources (heaters, hot air pipes etc.) appliances with strong magnets (large diffusers etc.), places subject to direct sunlight, rain, humidity, excessive dust, mechanical vibrations or shocks
- in compliance with Safety Standards, the protection against any contact with the electric parts must be ensured via correct installation of the instrument. All parts that ensure protection must be fixed in a way such that they cannot be removed without the aid of a tool.

1.3 **Electric connection**

Evco sales network

With reference to the wiring diagram: the serial port is the port for communication with the supervision system (via a serial interface, via TTL, with MODBUS communication protocol) or using the programming key. The port must not be used at the same time for two purposes. Recommendations for the electric connection:

- do not operate on the terminal boards using electric or pneumatic screwdrivers
- if the instrument has been taken from a cold place to a hot one, the humidity could condense inside. Wait about one hour before applying power
- make sure that the power supply voltage, frequency and operational electric power correspond to those of the local power supply
- · disconnect the power supply before performing any type of maintenance
- equip the probes with a protection able to insulate them against any contact with metal parts or use isolated probes
- do not use the instrument as a safety device · for repairs and information regarding the instrument, contact the



Preliminary considerations The following types of cooking can be managed (successively also called cooking phases)

- timed (see paragraph 4.3)
- core (see paragraph 4.4)
- steam (see paragraph 4.5)
- grill (see paragraph 4.6)
- continuous (see paragraph 4.7).
- If the parameter r11 is set at 1, every cooking phase is preceded by a pre-heating phase (see paragraph 4.2)

It is also possible to combine several cooking phases (i.e. plan that at the conclusion of one cooking phase another different type is automatically started) and memorise these combinations in the programs (see chapter 11).

The utilities managed by the digital outputs (i.e. the K1 relays... K6) are the following

RELAY UTILTYMANAGED

K1	temperature regulation
K2	grill
K3	can be set (airhole default)
K4	steam injection
K2	fan

K6 can be set (default reversal of the direction of the fan) To set the utility managed by the relay K3 and relay K6, see paragraph 5.1.

2.2 Management of the utilities

Temperature regulation

The output activity will mainly depend on the temperature of the chamber (chamber probe), the work set-point of the phase in progress and the parameter r0.

The output can be on during the pre-heating phase and during any cooking phase.

Grill.

The output is switched-on in a cyclical way (the parameter c1 establishes the cycle time; the parameter c11 establishes the duration of switch-on of the grill, intended as a percentage of the time established with parameter c1).

The output can also be switched-on in manual mode

The output can only be switched-on during the grill cooking phase Airhole.

The output is switched-on in the following conditions:

- before the conclusion of the steam cooking phase (the time established with parameter c5), for the time established with parameter c6
- in manual mode, for the time established with parameter c7 (both during the pre-heating phases and during any cooking phase)
- Steam injection.
- The output is switched-on in the following conditions:
- during the steam cooking phase, according to the method established with parameter t0
- in manual mode, for the time established with parameter t2 or for the entire duration of the manual action (both during the pre-heating phase and during any cooking phase)

Via the multifunction input it is also possible to switch the output on in remote mode

Fan.

The output can be on during the continuous mode during the preheating phase and during any cooking phase.

If the parameter F2 is set at 1, the fan output and the inversion output of the direction of fan movement will be switched-on in cyclical mode (the parameter F4 establishes the duration of every direction of movement. The parameter F3 establishes the time between switch-off of one output and the switch-on of another).

It is also possible to reverse the direction of movement of the fan in

manual mode Chamber light.

The output is switched-on in manual mode

Via the multifunction input it is also possible to switch the output on in

The output can be on during the pre-heating phase and during any cooking phase

Steam generator.

The output is switched-on in manual mode.

The output can be on during the pre-heating phase and during any

cooking phase

Alarm.

The output is switched-on during a temperature alarm.

The output can be on during the pre-heating phase and during any cooking phase.

Acoustics.

- The output is switched-on in the following conditions:
- at the conclusion of the pre-heating phase and at the conclusion of the core cooking phase for the time established with parameter c4
- · before conclusion of the timed cooking phase, the steam cooking
- phase and the grill cooking phase (with time established using parameter c9), for the time established with parameter c4
- during an alarm or an error, with continuous contribution (during the heating phase or during any cooking phase)

On/Stand by.

The output is switched-on during the "on" status (see paragraph 3.1). The output can be on during the pre-heating phase and during any cooking phase

In spite of the fact that the instrument can manage the 10 utilities stated in this paragraph, there are 6 digital outputs available. Make sure that the utility desired is managed by the instrument (see paragraph 2.1).

USER INTERFACE

3 1 **Preliminary considerations**

The following functioning states exist:

• the "on" status (the instrument is powered and on: the outputs can be switched on)

- . the "programmed switch-on" status (the instrument is powered but is switched-off via software: the outputs are off and programmed switch-on of the instrument is envisioned)
- the "stand-by" status (the instrument is powered but is switched-off via software: the outputs are off and programmed switch-on of the instrument is not envisioned)
- the "off" status (the instrument is not powered).

Successively, the term "switch-on" means that the passage from the stand-by status to the on status; the term "switch-off" means the passage from the on status to the stand-by status.

When the instrument is powered it re-proposes the status in which it found itself at the time when the power supply was disconnected.

Selecting the functioning state 3.2

To pass from the stand-by status to the on status (and vice versa): make sure no procedure is in progress

• press 🕐 for 1 s:

To pass from the programmed switch-on status to the on status:

- make sure no procedure is in progress
- press 0, for 1 s:

by pressing the keys

If the instrument is on:

parameter P5

progress

The display

3.3

To pass from the on status to the programmed switch-on status: • make sure no procedure is in progress

■ press 0 and n for 1 s:

To pass from the stand-by status to the programmed switch-on status land vice versal:

make sure no procedure is in progress

press 0 and ⊕ for 1 s:

Via the on/stand-by input it is also possible to pass from the on status (or from the programmed switch-on status) to the stand-by status in remote mode

To pass from the on status (or the programmed switch-on status) to the stand-by status in remote mode activate the on/stand-by input (the instrument remains in the

The successive deactivation always causes passage to the on status. If

the on/stand-by status is active, it will not be allowed to pass from the

stand-by status to the on status (or to the programmed switch-on status)

. the upper part of the display will show the quantity established with

if P5 = 1, the display will show the work set-point of the phase in

if P5 = 0, the display will show the chamber temperature

stand-by status for the entire duration of the input activation).

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- if P5 = 2, the display will show the core temperature
- if P5 = 3, the display will show the core set-point
- . the lower part of the display will show the quantity established with parameter P6
- if P6 = 0, the display will show the chamber temperature
- if P6 = 1, the display will show the work set-point of the phase in progress (in this case the "set" LED and the "1" LED will be on)
- if P6 = 2, the display the count of the duration of the cooking phase in progress (in this case the "timer" LED will be on). The count is displayed in the hours:minutes format (residual time)
- if P6 = 3, the display shows the day and the real time (in this case the "clock" LED will be on). The day will be displayed in the 1 ... format (number 1 corresponds to Monday), the real time in the 24 h format

- if P6 = 4, the display will show the core temperature

- if P6 = 5, the display will show the core set-point (in this case the "set" LED and the "2" LED will be on)
- if P6 = 6, the display will show the significant quantity for the event in progress:
- "PrEH" during the pre-heating phase
- " \mathbf{rdY} " flashing on conclusion of the pre-heating phase
- "End" flashing on conclusion of the cooking phase
- "EndP" flashing on conclusion of the program
- "PAUS" flashes during the suspension of the cooking phase
- count of the duration of the cooking phase, during the timed cooking phase, during the steam cooking phase and during the grill cooking phase
- core temperature during the core cooking phase

- "---" during the continuous cooking phase

If parameter P6 is set at values different to 6, these will have no effect in the following conditions:

- during the pre-heating phase (the lower part of the display will show "PrEH")
- on the conclusion of the pre-heating phase, in stand-by for start-up of the cooking phase (the lower part of the display shows flashing "rdY")
- during the pre-heating phase (the lower part of the display will show flashing "**PAUS**")

• on conclusion of the cooking phase (the lower part of the display will show flashing "End")

- on conclusion of the program (the lower part of the display will show flashing "EndP")
- during the core cooking phase (if P6 = 2) and during the continuous cooking phase (the lower part of the display will show "- - - "). See also paragraphs 3.5 and 3.7.

If the instrument is in the programmed switch-on status:

- the upper part of the display will show the program label which will be started on programmed switch-on of the instrument (if the startup of any program is not envisioned, the upper part of the display will show "P -")
- . the lower part of the display will show the day of the time of the next switch-on; the day is visualised in 1 ... 7 format (number 1 corresponds to Monday), the real time in the 24 h format (if no switch-on is programmed, the lower part of the display will show "--:--")

• the "delay" LED will be on

- the \oplus LED will be on.
- If the instrument is in the stand-by status:
- . the upper part of the display will be off
- . the lower part of the display

- will be off if parameter c8 is set at 0

- it will display the real time if parameter c8 is set at 1 (in this case the "clock" LED will be on); the real time is displayed in the 24 h format

• the 🛈 LED will be on.

3.4 Temporary setting of the quantity shown by the upper part of the display during the on status

- make sure no procedure is in progress • press \fbox{k} and \fbox{k} for 1 s several times: the highest display will show
- one of the labels stated in the table in paragraph 3.5 for 2 s, after which it will show
 - the corresponding value.

A power cut causes the restore of the display of the quantity established with parameter P5

3.5 Learning of the quantity shown by the upper part of the display during the on status

make sure no procedure is in progress

• press $\fbox{}_{\Delta}$ and $\textcircled{}_{0}$: the upper part of the display will show one of the labels given in the following table for 2 secs:

L/\DEL	IVIEZINING
Pbr	chamber temperature
SPr	work set-point of the phase in progress
PbC	core temperature
SPC	core set-point

If the core probe is not enabled (parameter P4 = 0), the "PbC" and "SPC" labels will not be displayed.

3.6 Temporary setting of the quantity shown by the lower part of the display during the on status

 make sure no procedure is in progress \bullet press ${\rm Adv}_{\overline{v}}$ and ${\rm O}_{\overline{v}}$ for 1 s several times: the lowest display will show one of the labels stated in the table in paragraph 3.7 for 2 s, after which it will show

the corresponding value

A power cut causes the restore of the display of the quantity established with parameter P6

3.7 Learning of the quantity shown by the lower part of the display during the on status

make sure no procedure is in progress

- press $\underbrace{\tilde{\textrm{sys}}}_{p}$ and $\underbrace{O_{p}}$: the lower part of the display will show one of the labels given in the following table for 2 secs: LABEL MEANING
- Pbr

rtc

PbC

SPC

any cooking phase

of the display for 1 s.

not caused)

to switch off.

called cooking phases):

3.8

3.9

4

4.1

timed

core

grill

4.2

steam

continuous.

pre-heating phase.

To start the phase:

• press (), for 1 s:

During the phase:

procedure is in progress

chamber temperature SPr work set-point of the phase in progress

day and real time

core temperature

make sure no procedure is in progress

by pressing the MIF key in remote mode.

make sure no procedure is in progress

FUNCTIONING

Silencing the buzzer

core set-point

"SPC" labels will not be displayed.

tinE count of the duration of the cooking phase in progress

If the core probe is not enabled (parameter P4 = 0), the "PbC" and

press MF
 The chamber light can be on during the pre-heating phase and during

Via the multifunction input it is also possible to cause the same effect

If the chamber light is not managed by any digital output, pressing the

(MF) key will cause the "no" indication to be shown in the lower part

• press a key (the first time the key is pressed, the associated effect is

Pressing the key also causes the acoustic output and the buzzer output

Via the multifunction input it is also possible to switch the buzzer, the

The following types of cooking can be managed (successively also

If no cooking phase is selected, a continuous cooking phase will be

If the parameter r11 is set at 1, every cooking phase is preceded by a

• make sure that the instrument is in stand-by status and that no

• the upper part of the display shows the established quantity with

acoustic output and the buzzer output off in remote mode

Preliminary considerations

Chamber light switch-on/off

parameter P5 (for predefined setting of the chamber temperature) $\ensuremath{^\circ}$ the lower part of the display will show the $\ensuremath{^\circ} \ensuremath{\mathsf{PrEH}}\xspace^*$ indication

started on instrument switch-on.

Pre-heating phase

- the work set-point is the "work set-point of the cooking phase successive to the pre-heating phase + temperature established using parameter r4" value (successively called work set-point of the preheating phase)
- press MF and O for 1 s to pass to the cooking phase.

When the temperature of the chamber reaches the work set-point of the pre-heating phase, the phase is concluded.

On conclusion of the phase:

- the lower part of the display will show the flashing "rdY" indication - the buzzer and the acoustic output are switched-on for the time established using parameter c4
- press a key to silence the buzzer and to switch the acoustic output off the activity of the output for continuous temperature regulation depends on the chamber temperature (chamber probe), the work
- set-point of the pre-heating phase and the parameter r0 the fan remains on
- press on 1 s to pass to the cooking phase.

Via the multifunction input it is also possible to pass from the conclusion of the pre-heating phase to the next cooking phase in remote mode. If on start-up of the pre-heating phase, the chamber temperature is above the work set-point of the pre-heating phase, this will not be performed

To modify the work set-point of the pre-heating phase:

- press and during the phase or the conclusion of the phase: the upper part of the display will show the work set-point of the pre-
- heating phase and the \clubsuit LED will flash • press $\fbox{}_{\Delta}$ or $\fbox{}_{\gamma}$ within 15 s; see also parameters r1 and r2
- press or do not operate for 15 s: the M LED will switch-off, after which the instrument will exit the procedure
- To exit the procedure in advance:

 do not operate for 15 s (any modifications will be saved). The modification of the work set-point of the pre-heating phase causes automatic adaptation of the work set-point of the next cooking phase at the pre-heating phase such to guarantee that the "work set-point of the next cooking phase at the pre-heating phase + temperature established using parameter r4" is always the work set-point of the preheating phase

To interrupt the phase and pass to the next one:

■ press(MIF) and 🕐 for 1 s:

- To interrupt the phase:
- press 🕐 for 1 s:

4.3 Timed cooking phase

To select the phase:

- make sure that the instrument is in the stand-by status, that no procedure is in progress and the chamber probe error is not in progress • press (m): the lower part of the display will show flashing "tinE". To exit the procedure in advance:
- press on do not operate for 15 s.
- To start the phase:

• press 🕐 for 1 s: To modify the work set-point:

- press before starting the phase: the upper part of the display will show the work set-point and the $\ensuremath{\mathsf{W\!M}}$ LED will flash
- press () or (≤) within 15 s; see also parameters r1 and r2 • press with the press or the press press of the press press of the press pres after which the instrument will exit the procedure.

- To exit the procedure in advance:
- do not operate for 15 s (any modifications will be saved). It is also possible to set the work set-point of the timed cooking phase
- via parameter SP1 (for predefined setting 150 °C/°F).

To modify the duration of the phase:

 \bullet press $\ensuremath{\ensuremath{\mathfrak{I}}\xspace}$ and $\ensuremath{\textcircled{\mbox{\tiny BB}}\xspace}$ before starting the phase: the lower part of the display will show phase duration, the left part

and the "timer" LED will flash. The duration of the phase is visualised in the hours:minutes format.

To modify the hour.

The duration of the phase can be set between 00:00 and 24:00 h:min.

• press 🔐 : the "timer" LED will switch-off, after which the instrument

It is also possible to set the duration of the timed cooking phase via

The work set-point and the duration of the phase can also be modified

when the phase is in progress (these modifications are temporary, i.e.,

on the contrary to any power supply cut-off, the selection of a different

type of cooking phase causes the reset of the same values set, however

If the duration of the phase is set at 00:00 h:min, the count will be

interrupted, the "timer" LED will switch-off, the buzzer and the acoustic

• the upper part of the display shows the established quantity with

parameter P5 (for predefined setting of the chamber temperature)

. the lower part of the display shows the quantity established using

parameter P6 (for predefined setting of the count of the phase

duration; the count is displayed in the hours: minutes format (residual

press MF and O to display the indication relative to the cooking

When the count of the duration of the phase is completed, the phase

Before the conclusion of the phase (of the time established with

the buzzer and the acoustic output are switched-on for the time

the lower part of the display will show the flashing "End" indication

press a key to silence the buzzer and to switch the acoustic output

 \bullet press $\ensuremath{\overbrace{\text{MF}}}$ and $\ensuremath{\textcircled{\sc op}}$ for 4 s: the lower part of the display will show

The instrument memorises the phase and its settings on condition that

• make sure that the instrument is in the stand-by status, that no

procedure is in progress and the chamber probe error is not in progress

• press : the lower part of the display will show flashing "tinE"

If the core probe is not enabled (parameter P4 = 0) or if a core probe

press to before starting the phase: the upper part of the display will

• press h_{Δ} or f_{A} within 15 s; see also parameters r1 and r2

show the work set-point, the M LEDs and "1" will flash

error is in progress, the "CORE" label will not be displayed.

"PrOG" and a flashing label relative to the first

off; press it again to delete the "End" indication

the temperature regulation output is switched-off

To memorise the phase and its settings in a program:

program

another phase is not selected on conclusion of the phase.

repeat the procedure stated in paragraph 11.2.

Core cooking phase

■ press n ≤ within 15 s to select "COrE".

the display ("tinE").

phase in progress for 2 sec in the lower part of

do not operate for 15 s (any modifications will be saved).

parameter d1 (for pre-defined setting 00:30 h:min).

with the procedure indicated in paragraph 5.3).

- press (N_A) or (≤)_v within 15 s
 press (SS →) : the right part will flash.
- press → or within 15 s.

To go back to the previous level:

• press 🐑 during the procedure. To exit the procedure in advance:

will exit the procedure.

To modify the minutes:

output will be on for 3 s.

During the phase:

time))

is concluded.

parameter c9):

established using parameter c4.

make sure the phase has ended.

To exit the procedure in advance:

To modify the work set-point:

press on do not operate for 15 s.

On conclusion of the phase:

the fan is switched-off.

To interrupt the phase:

• press 🕐 for 1 s:

To select the phase:

To start the phase:

press 00 for 1 s:

4.4

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• press me twice or do not operate for 15 s: the M LEDs and "1" will switch-off, after which the instrument will exit the procedure.

It is also possible to set the work set-point of the core cooking phase via parameter SP3 (for predefined setting 150 °C/°F). To modify the core set-point:

• press 🛲 during modification of the work set-point: the upper part of the display will show the core set-point, the ${f M}$ LEDs and "2" will flash

• press $[n]_{a}$ or $(m)_{b}$ within 15 s; see also parameters r7 and r8 • press 📆 : the M LEDs and "2" will switch-off, after which the instrument will exit the procedure.

It is also possible to set the core set-point via parameter $\ensuremath{\mathsf{SP2}}$ (for

predefined setting 150 °C/°F).

To go back to the previous level:

press ☺_■ during the procedure.

To exit the procedure in advance:

 do not operate for 15 s (any modifications will be saved) The work set-point and the core set-point can also be modified when the phase is in progress (these modifications are temporary, i.e., on the contrary to any power supply cut-off, the selection of a different type of cooking phase causes the reset of the same values set, however with the procedure indicated in paragraph 5.3).

During the phase:

- the upper part of the display shows the established quantity with parameter P5 (for predefined setting of the chamber temperature) • the lower part of the display shows the core temperature
- \bullet press \fbox{MF} and $\fbox{O}_{\textcircled{O}}$ to display the indication relative to the cooking
 - phase in progress for 2 sec in the lower part of the display ("COrE").

When the core temperature reaches the core set-point, the phase concludes

On conclusion of the phase:

- the lower part of the display will show the flashing "End" indication

- the buzzer and the acoustic output are switched-on for the time established using parameter c4
- press a key to silence the buzzer and to switch the acoustic output
- off; press it again to delete the " \mathbf{End} " indication - the temperature regulation output is switched-off

the fan is switched-off

To interrupt the phase:

press on 1 s:

To memorise the phase and its settings in a program:

make sure the phase has ended

- press MF and O for 4 s: the lower part of the display will show "PrOG and a flashing label relative to the first program

 repeat the procedure stated in paragraph 11.2. The instrument memorises the phase and its settings on condition that another phase is not selected on conclusion of the phase

4.5 Steam cooking phase

To select the phase:

- make sure that the instrument is in the stand-by status, that no procedure is in progress and the chamber probe error is not in progress

To exit the procedure in advance:

press on do not operate for 15 s.

To start the phase:

• press 0, for 1 s:

- To modify the work set-point:
- press 🗱 before starting the phase: the upper part of the display will show the work set-point and the M LED will flash
- press i_{A} or i_{A} within 15 s; see also parameters r1 and r2 • press (or not operate for 15 s: the M LED will switch-off, after which the instrument will exit the procedure.

To exit the procedure in advance

do not operate for 15 s (any modifications will be saved)

It is also possible to set the work set-point of the steam cooking phase via parameter SP4 (for predefined setting 150 °C/°F). To modify the duration of the phase:

- press[™]_∞ and [⊙]_■ before starting the phase: the lower part of the
- display will show phase duration, the left part and the "timer" LED will flash.

The duration of the phase is visualised in the hours: minutes format.

To modify the hour

press → or → within 15 s
 press → : the right part will flash.

To modify the minutes

■ press or within 15 s.

The duration of the phase can be set between 00:00 and 24:00 h:min press It and "timer" LED will switch-off, after which the instrument

will exit the procedure.

To go back to the previous level:

 press in during the procedure. To exit the procedure in advance:

· do not operate for 15 s (any modifications will be saved)

It is also possible to set the duration of the steam cooking phase via parameter d4 (for pre-defined setting 00:30 h:min).

To modify the parameter t2 (if t0 = 0, minimum duration of steam injection; se t0 = 1, duration of steam injector switch-on):

- press and symplet before starting the phase: the lower part of the display will show the value of parameter t2 and
- the 🌏 LED will flash press N_Δ or Sy within 15 s.

The parameter t2 can be set between 1 and 250 ds.

■ press 👪 : the 🚓 LED will switch-off, after which the instrument will exit the procedure.

The duration of the phase is visualised in the hours:minutes format.

The duration of the phase can be set between 00:00 and 24:00 h:min.

• press (***): the "timer" LED will switch-off, after which the instrument

It is also possible to set the duration of the grill cooking phase via

To modify the switch-on duration of the grill (intended as a percentage

• press MF before starting the phase: the lower part of the display will

The duration of the phase is visualised in the 0 .. format. 100% press No. or (≤) within 15 s
press → construct of after which the instrument will

• do not operate for 15 s (any modifications will be saved).

It is also possible to set the switch-on duration of the grill via parameter

The work set-point, the duration of the phase and the switch-on

duration of the grill can also be modified when the phase is in progress

(these modifications are temporary, i.e., on the contrary to any power supply cut-off, the selection of a different type of cooking phase causes

the reset of the same values set, however with the procedure indicated

If the duration of the phase is set at 00:00 h:min, the count will be

interrupted, the "timer" LED will switch-off, the buzzer and the acoustic

. the upper part of the display shows the established quantity with

parameter P5 (for predefined setting of the chamber temperature)

. the lower part of the display shows the quantity established using

parameter P6 (for predefined setting of the count of the phase

duration; the count is displayed in the hours:minutes format (residual

 ${\scriptstyle \bullet} \, {\rm press}_{\fbox}$ and \textcircled{O}_{\odot} to display the indication relative to the cooking

When the count of the duration of the phase is completed, the phase

Before the conclusion of the phase (of the time established with

- the buzzer and the acoustic output are switched-on for the time

- the lower part of the display will show the flashing "End" indication

- press a key to silence the buzzer and to switch the acoustic output

 \bullet press $\ensuremath{\fbox{MF}}$ and $\ensuremath{\textcircled{O}_{\tiny \tiny I\!I\!I\!I}}$ for 4 s: the lower part of the display will show

The instrument memorises the phase and its settings on condition that another phase is not selected on conclusion of the phase.

make sure that the instrument is in the stand-by status, that no

procedure is in progress and the chamber probe error is not in progress press : the lower part of the display will show flashing "tinE"
 press , within 15 s to select "COnt".

press before starting the phase: the upper part of the display

press (I) or (Sy) within 15 s; see also parameters r1 and r2
 press (I) or do not operate for 15 s: the M LED will switch-off,

It is also possible to set the work set-point of the continuous cooking

The work set-point can also be modified when the phase is in progress (this

modification is temporary, i.e., on the contrary to any power supply cut-off,

the selection of a different type of cooking phase causes the reset of the

same value set, however with the procedure indicated in paragraph 5.3).

do not operate for 15 s (any modifications will be saved).

phase via parameter SP6 (for predefined setting 150 °C/°F).

after which the instrument will exit the procedure.

will show the work set-point and the \clubsuit LED will flash

 $"\ensuremath{\mathsf{PrOG}}"$ and a flashing label relative to the first

off; press it again to delete the $``{\rm End}''$ indication

- the temperature regulation output is switched-off

To memorise the phase and its settings in a program:

program

Continuous cooking phase

repeat the procedure stated in paragraph 11.2.

the display ("GriL").

phase in progress for 2 sec in the lower part of

show the duration of switch-on of the grill and the ED

do not operate for 15 s (any modifications will be saved).

parameter d5 (for pre-defined setting 00:30 h:min).

of the time established using parameter c1):

exit the procedure.

To modify the hour

To modify the minutes:

press N_a or Sy within 15 s
 press Sy it is the right part will flash.

• press () or (≤) within 15 s.

To go back to the previous level: • press \bigcirc_{\blacksquare} during the procedure.

To exit the procedure in advance:

will flash

To exit the procedure in advance

c11 (for predefined setting 25%)

in paragraph 5.3)

During the phase:

time))

is concluded.

parameter c9):

established using parameter c4.

make sure the phase has ended

To exit the procedure in advance:

To modify the work set-point:

To exit the procedure in advance:

press on do not operate for 15 s.

On conclusion of the phase:

- the fan is switched-off.

To interrupt the phase:

• press 🕐 for 1 s:

To select the phase:

To start the phase:

• press 💽 for 1 s:

4.7

output will be on for 3 s.

will exit the procedure.

To exit the procedure in advance:

• do not operate for 15 s (any modifications will be saved).

To modify parameter c7 (switch-on duration of the airhole in manual mode):

• press and have before starting the phase: the lower part of the display will show the value of parameter c7, the

- left part and the LED will flash. The value of the parameter c7 is displayed in the minutes:seconds format.
- To modify the minutes:

press (In) or (Sy within 15 s
 press (In) : the right part will flash.

- To modify the seconds:
- press is within 15 s. The parameter c7 can be set between 00:00 and 60:00 min:s.

If the airhole is not managed by any digital output, the lower part of

the display will show "no" for 1 s.

- press 🕮 : the 📉 LED will switch-off, after which the instrument will exit the procedure.
- To go back to the previous level:

- press rest during the procedure. To exit the procedure in advance:
- · do not operate for 15 s (any modifications will be saved)
- The work set-point, the duration of the phase, parameter t2 and parameter t7 can also be modified when the phase is in progress (these modifications are temporary, i.e., on the contrary to any power supply cut-off, the selection of a different type of cooking phase causes the reset of the same values set, however with the procedure indicated in paragraph 5.3)
- If the duration of the phase is set at 00:00 h:min, the count will be interrupted, the "timer" LED will switch-off, the buzzer and the acoustic output will be on for 3 s.

During the phase:

- the upper part of the display shows the established quantity with parameter P5 (for predefined setting of the chamber temperature)
- the lower part of the display shows the quantity established using parameter P6 (for predefined setting of the count of the phase duration; the count is displayed in the hours: minutes format (residual time))
- ${\scriptstyle \bullet} \, {\rm press}_{\fbox}$ and \fbox_{\odot} to display the indication relative to the cooking phase in progress for 2 sec in the lower part of the display ("StEA").
- When the count of the duration of the phase is completed, the phase
- is concluded. Before the conclusion of the phase (of the time established with
- parameter c9): - the buzzer and the acoustic output are switched-on for the time
- established using parameter c4.
- On conclusion of the phase:
- the lower part of the display will show the flashing $``{\rm End}''$ indication - press a key to silence the buzzer and to switch the acoustic output off; press it again to delete the "End" indication

The instrument memorises the phase and its settings on condition that

• make sure that the instrument is in the stand-by status, that no

procedure is in progress and the chamber probe error is not in progress

- press $\overbrace{}^{\text{sst}}$: the lower part of the display will show flashing "tinE"

If the pre-heating phase is not enabled (parameter r11 = 0), the "GriL"

 \bullet press $\fbox{}$ before starting the phase: the upper part of the display

after which the instrument will exit the procedure.

It is also possible to set the work set-point of the grill cooking phase via

 \bullet press $\fbox{}$ and $\textcircled{\odot}_{\boxplus}$ before starting the phase: the lower part of the

and the "timer" LED will flash

display will show phase duration, the left part

do not operate for 15 s (any modifications will be saved).

parameter SP5 (for predefined setting 150 °C/°F).

will show the work set-point and the \clubsuit LED will flash • press $[N_{\Delta}]$ or (sy) within 15 s; see also parameters r1 and r2 • press $[M_{\Delta}]$ or do not operate for 15 s: the M LED will switch-off,

- the temperature regulation output is switched-off
- the fan is switched-off.
- To interrupt the phase:
- press 🕐 for 1 s:

To select the phase:

To start the phase:

• press 💽 for 1 s:

label will not be displayed.

To modify the work set-point:

To exit the procedure in advance:

To modify the duration of the phase:

4.6

- To memorise the phase and its settings in a prog
- make sure the phase has ended • press $\begin{tabular}{c} \label{eq:press} \end{tabular}$ and $\begin{tabular}{c} \begin{tabular}{c} \end{tabular} \end{tabular}$ for 4 s: the lower part of the display will show $\end{tabular}$ and $\begin{tabular}{c} \end{tabular}$ and tabular and tabul

program

another phase is not selected on conclusion of the phase.

repeat the procedure stated in paragraph 11.2.

Grill cooking phase

press is a construction of state of the select "GriL".

To exit the procedure in advance:

press 0, do not operate for 15 s.

• the lower part of the display will show the "----" indication \bullet press $\ensuremath{\texttt{MF}}$ and $\ensuremath{\textcircled{O}_{\varnothing}}$ to display the indication relative to the cooking phase in progress for 2 sec in the lower part of the display ("COnt"). The phase remains active until it is interrupted 5.3 To conclude/interrupt the phase: • press 💽 for 1 s: To memorise the phase and its settings in a program: make sure the phase has ended ■ press MF and ③ for 4 s: the lower part of the display will show "PrOG" and a flashing label relative to the first program repeat the procedure stated in paragraph 11.2. The instrument memorises the phase and its settings on condition that another phase is not selected on conclusion of the phase. 4.8 Additional functions 4.8.1 Suspension/re-start of a timed cooking phase, of a steam cooking phase and a grill cooking phase ■ press 🛞 🖽 During the suspension: • the lower part of the display will show flashing "PAUS" . the temperature regulation output is switched-off • the grill is switched-off. • the airhole is switched-off • the steam injector is switched-off the fan is switched-off . the phase duration count is suspended. 4.8.2 Extension of a cooking phase on conclusion of 5.4 the same ${\scriptstyle \bullet}$ press $\textcircled{\odot}_{\scriptstyle \boxplus}$ before interrupting the phase: the lower part of the display will show "00" and the "timer" LED will flash ■ press 📢 or 🔬 within 15 s. The duration of the extension can be set between 1 and 59 min. press etc.): the "timer" LED will stop flashing and will switch-on, after which the instrument will exit the procedure and the cooking phase will be re-started. To exit the procedure in advance: do not operate for 15 s (any modifications will be saved). To prolong the cooking phase further, repeat the procedure given in this paragraph. SETTINGS 5.1 Setting the utility managed by relay K3 and relay K6 To access the procedure: • make sure that the instrument is in stand-by status and that no procedure is in progress • press h_{Δ} and s for 4 s: the upper part of the display will show "PA" • press : the lower part of the display will show the corresponding value • press ℕ or Ś within 15 s to set "**743**" 6 • press 6.1 "dEF" press is or (≤) to select "do3" or "do6" The label meaning is the following: LABEL MEANING do3 utility managed by the third digital output (relay K3) do6 utility managed by the sixth digital output (relay K6) To modify the utility managed by an output: press st
 : the lower part of the display will show the corresponding value. 6.2 The meaning of the values is the following: VALUE MEANING 0 not used vent reversal of the direction of the far chamber light steam generato 4 6.3 alarm 6 acoustic is in progress on/stand-by press N_A or S_v within 15 s 6.4 To exit the procedure • press → and → for 4 s: 5.2 Setting the day and the real time • make sure that the instrument is in stand-by status and that no 7.1 procedure is in progress \bullet press $\fbox{}$ and $\textcircled{\odot}_{\boxplus}$: the lower part of the display will show the day

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• the upper part of the display shows the established quantity with

parameter P5 (for predefined setting of the chamber temperature)

During the phase:

of the week and the real time; the indication relative to the day and the "clock" LED will flash.

The day is displayed in the 1 ... 7 format (number 1 corresponds to Monday), the real time in the 24 hour format (hours:minutes) To modify the day:

- press (i) or (sym within 15 s
 press (sym or content) is the left part of the indication relative to the real time will flash. To modify the hour:
- press in or ≤>→ within 15 s
- press : the right part of the indication relative to the real time will flash

To modify the minutes:

- press () or () within 15 s • press (clock " LED will switch-off, after which the instrument
 - will exit the procedure.
 - To go back to the previous level:
 - press end during the procedure.

 - To exit the procedure in advance:
 - do not operate for 15 s (any modifications will be saved).
 - Setting the configuration parameters

 - To access the procedure: • make sure that the instrument is in stand-by status and that no

 - procedure is in progress
 - press $[h_{\Delta}]$ and $[]_{\nabla_{\nabla}}$ for 4 s: the upper part of the display will show "PA" • press : the lower part of the display will show the corresponding value
 - press n ≤ within 15 s to set "-19"
 - press or do not operate for 15 s
 - press and s: the upper part of the display will show "SP1" To select a parameter:
- press N _ ≤
 - To modify a parameter: \bullet press \fbox : the lower part of the display will show the corresponding value
- press → or shin 15 s
- press et all or do not operate for 15 s.
- To exit the procedure: • press $\fbox{}_{\mbox{\tiny A}}$ and $\fbox{}_{\mbox{\tiny B}}$ for 4 s or do not operate for 60 s (any
- modifications will be saved). Cut off the power supply to the instrument after
- modification of the parameters.
- Restoring the default values (configuration parameters and settings memorised in the programs)
- make sure that the instrument is in stand-by status and that no procedure is in progress
- press $harphi_{\Delta}$ and first black for 4 s: the upper part of the display will show "PA"• press : the lower part of the display will show the corresponding
- value • press 📢 or 🕞 within 15 s to set "743"
- press or do not operate for 15 s press → and → for 4 s: the upper part of the display will show "dEF" • press : the lower part of the display will show the corresponding
- value
- press → or within 15 s to set "149" • press with operate for 15 s: the upper part of the display will show flashing "dEF" for 4 s, after which "dEF" will
- switch-on
- •cut the instrument power supply off
- To exit the procedure in advance:
- press $\fbox{(n)_{a}}$ and $\fbox{(s)_{b}}$ for 4 s during the procedure (i.e. before setting "149": restore will not be carried out).
- Make sure that the default values are appropriate.
 - GRILL

Preliminary considerations

- The grill is switched-on in a cyclical way (the parameter c1 establishes the cycle time; the parameter c11 establishes the duration of switch-on of the grill, intended as a percentage of the time established with parameter c1).
- If the parameter r17 is set at 1, the grill will only be switched on once before the conclusion of the grill cooking phase (for the time established with the parameter c1).
- The grill can also be switched-on/off in manual mode.
- The grill can only be switched-on during the grill cooking phase.

Activation/deactivation of grill switch-on in

- cyclical mode (only if parameter r17 is set at 0) • make sure a grill cooking phase is in progress and that no procedure is in progress
- press 🛲 for 4 s: the 📰 LED will switch-on and the grill will be on, both for the time established with parameter c11, intended
- as a percentage of the time established using parameter c1. Grill switch-on in manual mode
- make sure a grill cooking phase is in progress and that no procedure
- press for 4 s: the LED will switch-on and the grill will be turned
- on, both for the time established with parameter c1. Grill switch-off in manual mode

• make sure no procedure is in progress

- press set for 4 s: the press LED will switch-off.
- AIRHOLE

Preliminary considerations

- The airhole can be switched on in the following conditions: · before the conclusion of the steam cooking phase (the time established
- with parameter c5), for the time established with parameter c6 • in manual mode, for the time established with parameter c7 (both
- during the pre-heating phases and during any cooking phase).

7.2 Airhole switch-on in manual mode

- make sure that the instrument is in on status and that no procedure is in proaress
- press $[N_{\Delta}]$: the $[N_{\Delta}]$ LED will switch-on and the airhole will be turned on, both for the time established with parameter c7.
- If the airhole is not managed by any digital output, pressing the key will cause the "no" indication to be shown in the lower part of the display for 1 s.

7.3 Airhole switch-off in manual mode

- make sure no procedure is in progress
- press 🔃 : the 🔪 LED will switch-off. STEAM INJECTION 8

8.1 **Preliminary considerations**

- The steam injector can be switched-on in the following conditions: • during the steam cooking phase, according to the method established with parameter t0:
- if the parameter t0 is set at 0, pressing the $\eqref{eq:spin}$ key will cause the injection of the steam for the time established with parameter t2 or for the entire duration that the key is pressed; the parameter t1 establishes the minimum time that will pass between the two successive injections.
- if the parameter t0 is set at 1, pressing the $\ensuremath{\underline{\circledast}}_{\nabla}$ key will enable the automatic injection of the steam (in cyclical mode: the parameter t2 establishes the duration of injector switch-on and the parameter t1 establishes the duration of switch-offl.
- . in manual mode, for the time established with parameter t2 or for the entire duration of the manual action (both during the pre-heating phase and during any cooking phase).
- Via the multifunction input it is also possible to cause the same effect by pressing the $\overbrace{\leqslant}_{\forall}$ key in remote mode.
- The steam injection is subordinate to the status of the fan and the steam generator (see chapters 9 and 10).

Switch-on of the injector in manual mode (only 8.2

if the parameter t0 is set at 0)

- make sure that the instrument is in on status and that no procedure is in progress
- press 🛞 : the العند LED switches on and the injector will be activated, both for the time established with parameter t2 or for the entire duration that the key is pressed.
- The injector cannot be switched-off in manual mode

8.3 Enabling of the automatic injection of the steam (only if the parameter t0 is set at 1)

- make sure the steam cooking phase is in progress and that no procedure is in progress
- press (≤) : the (2) LED will switch-on and the injector will be switchedon in cyclical mode according to that established with the parameters t1 and t2 (until the key is pressed again).

FAN Preliminary considerations

9.1

- The fan can be on during the continuous mode during the pre-heating phase and during any cooking phase
- If the parameter F2 is set at 1, the fan output and the inversion output of the direction of fan movement will be switched-on in cyclical mode (the parameter F4 establishes the duration of every direction of movement. The parameter F3 establishes the time between switch-off of one output and the switch-on of another).
- It is also possible to reverse the direction of movement of the fan in manual mode.
- If parameter r16 is set at 1, during switch-off of the fan, the output for regulation of the temperature will remain off.
- If parameter t5 is set at 0, the steam injection will be allowed on condition that the fan is on. If parameter t5 is set at 1, the steam injection will be allowed on condition that the fan is off (i.e. during switch-off of the fan;

in this case the injector can only be switched-on in manual mode). 9.2 Inversion of the direction of fan movement in manual mode

• make sure that parameter F2 is set at 1 and that no procedure is in progress

- press MF for 4 s: the fan will remain off for the time established with parameter F3, after which it will be switched back on
- If the fan movement direction reversal is not managed by any digital output, pressing the $\begin{tabular}{c} \end{tabular} MIF \end{tabular}$ key will cause the "no" indication to be shown in the lower part of the display for 1 s.

The steam generator allows to subject the injection of the steam at its

Pressing the MF and e_{V} keys will cause the steam generator to switch-

on and pressing again causes switch-off; the injection of steam is

The steam generator can be on during the pre-heating phase and

If the steam generator is not managed by any digital output, pressing

the $\overline{\mathrm{MF}}$ and $\overline{\mathrm{HF}}$ key will cause the "**no**" indication to be shown in the

The programs allow to memorise combinations of several cooking

On program start-up the instrument will function with the settings it

It is possible to combine up to 5 cooking phases (i.e. plan that on

conclusion of a cooking phase a different type is started automatically)

The programs can be started in manual mode or on programmed

The modification of the settings memorised in a program during the

execution of the same is not re-proposed on the successive start-up of

for every program. It is possible to memorise up to 10 programs. If the parameter r11 is set at 1, the first cooking phase is preceded by a

STEAM GENERATOR 10

own status

11

11.1

phases.

has memorised.

the same program.

during any cooking phase.

lower part of the display for 1 s

pre-heating phase (see paragraph 4.2).

switch-on of the instrument (see chapter 12).

10,1 Preliminary considerations

allowed on condition that the steam generator is on.

PROGRAMS MANAGEMENT

Preliminary considerations

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11.2 Memorising a program

To access the procedure

• make sure that the instrument is in stand-by status and that no procedure is in progress

■ press MF and Om : the lower part of the display will show "PrOG

The label meaning is the following:				
LABEL	MEANING			
0	zero program			
1	first program			
2 8	second eighth program			
9	ninth program			
-	no program used			

To select a program:

• press → or → within 15 s (for example to select "**7**").

If the program is already used, the top part of the display will show "bSY" To select the first cooking phase:

 \bullet press $(\ensuremath{\overrightarrow{\mbox{mmath${\rm mmm$1$}$}}})$: the upper part of the display will show flashing "F 1" (it is the label of the first phase) and the lower part will show "----"

- press : the upper part of the display will show "F 1" and the lower part will show flashing "----"
- press N_A or Syd within 15 s (for example to select "COrE"). If the pre-heating phase is not enabled (parameter r11 = 0), the "Gril" label will not be displayed.

To modify the settings

- operate as indicated in the respective procedure, i.e.:
- operate as indicated in the procedure stated in paragraph 4.3 for the timed cooking phase
- operate as indicated in the procedure stated in paragraph 4.4 for the core cooking phase
- operate as indicated in the procedure stated in paragraph 4.5 for the steam cooking phase
- operate as indicated in the procedure stated in paragraph 4.6 for the grill cooking phase
- operate as indicated in the procedure stated in paragraph 4.7 for the
- continuous cooking phase ■ press 🛞 m for 1 s: the upper part of the display will again show flashing "F 1" and the lower part the label of the cooking phase (in

the example "COrE").

To select the successive cooking phases: repeat the procedure stated in this paragraph.

The upper part shows "Ch"

To memorise the program:

- press () for 1 s: the upper part of the display will show "**Ch**" for 1 s, after which it will show "**bSY**", the lower part will
 - show flashing "PrOG" for 4 s and the program label (in

the example "7"), after which "PrOG" it will switch-on. To memorise another programmed, repeat the procedure given in this

paragraph. To exit the procedure:

press m and ⊙ or do not operate for 15 s.

- To exit the procedure in advance:
- press mm and ⊙m or do not operate for 15 s during the procedure (i.e. before memorising the program: any
- modifications will not be saved).

11.3 Starting a program in manual mode

- press $\textcircled{0}_{0}$ after having memorised the program
- 11.4 Start-up of a program on programmed switch-on of the instrument
- press stated in chapter 12 (i.e. after having modified the minutes, for example, of the switchoff time "H07" of the combination of days "1 - 5"): the lower part of the display will show " $\mathbf{PrOG}"$ and "1" (it is the label of the first program).

To select a program:

• press $[\mathbf{N}_{\Delta}]$ or $[\mathbf{S}_{\nabla}]$ within 15 s (for example to select "**7**"). To display the information regarding the program:

• press [MIF]: the display and the LEDs will show the following information in succession (for example), after which the instrument will restore the normal display.

	AW.	150
		the cooking phase (continuous)
	-	Cont (continuous)
		the core set-point value is 150 °C/°F
1	M and 2	100 (continuous)
		the work set-point value is 150 °C/°F
1	M and 1	150 (continuous)
		the cooking phase (core)
	-	CorE (continuous)
		the program selected
	-	7 (upper part) and PrOG (lower parts; continuous)
	LED	DISPLAY

the work set-point value is 150 °C/°F

The display shows every setting for 1 s.

To exit the succession of settings:

• press MIF

To confirm the selection of the program:

• press [stt_____] the upper part of the display will again show the label of the flashing switch-on time (in the example "H07") and the lower part will show the combination of days again (in the example "1 - 5").

If "-" is selected, on programmed switch-on of the instrument a continuous cooking phase will be started.

To memorise another program, repeat the procedure given in this paragraph.

To exit the procedure:

■ press and to not operate for 15 s: the "delay" LED will switch-off.

To exit the procedure in advance:

- press and on to perate for 15 s during the procedure (i.e. before confirming the selection of the program: any modifications will not be saved).
- 11.5 Exclusion of the cooking phase of a program for benefit of the successive one

• make sure no procedure is in progress

 $\bullet\, {\rm press}_{\textcircled{\tiny{III}}}$ for 4 s: the instrument passes to the successive cooking phase

Learning the information regarding the program during the execution of the same

make sure no procedure is in progress

- \bullet press $\textcircled{\odot}_{\boxplus}$ and $\textcircled{\odot}_{\oplus}$: the display and the LEDs will show the following
- information (for example), after which the instrument will restore the normal display. To pass
 - from one piece of information to the next press $\overline{|\mathbf{x}|_{\Delta}}$

LED DISPLAY

- 7 (upper part: program 7) and PrOG (lower part) P71 (upper part: program 7, phase 1) and CorE (lower
- part; the cooking phase)
- M and 1 P71 (upper part: program 7, phase 1) and 150 (lower part; the value of the work set-point)
- M and 2 P71 (upper part: program 7, phase 1) and 100 (lower part; the value of the core set-point)
- P72 (upper part: program 7, phase 2) and COnt (lower
- part; the cooking phase) ₩ P72 (upper part: program 7, phase 2) and 150 (lower
- part; the value of the work set-point) End

The display shows every setting for 1 s.

To exit the succession of settings:

• press⊙_■ and <u></u>

The instrument displays the information memorised in the program and not any modifications made during execution of the same.

PROGRAMMED SWITCH-ON 12 12.1 Preliminary considerations

The programmed switch-on allows to plan the automatic switch-on of the instrument.

On switch-on the instrument will function with the settings memorised

in a program (see chapter 11). It is possible to plan 14 switch-on times; there are 12 possible

combinations of switch-on days. If there is a power cut in progress at the switch-on time, the switch-on

will be re-proposed when the power is restored. 12.2 Setting programmed switch-on

To access the procedure:

• make sure that the instrument is in on status and that no procedure is in progress

 \bullet press $(\mbox{\tiny BM})$ and $(\mbox{\scriptsize O}_{\odot})$: the upper part of the display will show flashing "H01" (it is the label of the first switch-on time). the lower part will show a label relative to a

> combination of switch-on days and the "delay" LED will flash

The following combinations of days for switch-on available are the followina

9				
LABEL	COMBINATION OF DAYS			
	no day			
- 1 -	Monday			
- 2 -	Tuesday			
- 3 -	Wednesday			
- 4 -	Thursday			
- 5 -	Friday			
- 6 -	Saturday			
- 7 -	Sunday			
1 - 5	from Monday to Friday			
1 - 6	from Monday to Saturday			
1 - 7	from Monday to Sunday			
6 - 7	Saturday and Sunday			
To select an ignition time:				
■ press no select "H07").				
To select a combination of days to which the selected switch-on time				
will be applied (in the example, "H07"):				
• press set	while the top part of the display is flashing: the lower part			

of the display will show a flashing label relative to a combination of days and the upper part will switch-on

• press → or () within 15 s (for example to select "1 - 5"). To set the selected switch-on time (in the example "H07"):

 \bullet press $\ensuremath{\mbox{stress}}$ while the lower part of the display is flashing: the lower

part of the display will show the switch-on time; the left part will flash.

The time is displayed in the 24 h format (hours:minutes) To modify the hour:

• press → or shin 15 s

 pressession : the right part of the indication relative to the ignition time will flash

To modify the minutes: press ℕ or Ś within 15 s

• press 🗮 : the upper part of the display will again show the label of the flashing switch-on time (in the example "H07") and the lower part will show the combination of days again (in

the example "1 - 5"). To set another programmed switch-on, repeat the procedure given in

• press and or do not operate for 15 s: the "delay" LED will

press and or do not operate for 15 s during the procedure

For the instrument to switch-on automatically on the day

and time set, these must be in the programmed switch-on

To pass from the on status (or the stand-by status) to the programmed

. the upper part of the display will show the program label which will

be started on programmed switch-on of the instrument (if the start-

up of any program is not envisioned, the upper part of the display

. the lower part of the display will show the day of the time of the next

switch-on; the day is visualised in 1 ... 7 format (number 1 corresponds

to Monday), the real time in the 24 h format (if no switch-on is

• make sure that the instrument is in the programmed switch-on status

• press $\fbox{}$ and : the upper part of the display will show the label

The day is displayed in the 1 ... 7 format (number 1 corresponds to

press (m): the left part of the indication relative to the ignition time will flash.

• press (); the right part of the indication relative to the ignition time will flash.

• press : the label of the program that will started on switch-on

• press : the "delay" LED will switch-on, after which the instrument

• press $\fbox{\ }$ and $\textcircled{\ }$ or do not operate for 15 s (any modifications will not be saved).

The temporary modification of a switch-on is re-proposed also after a

power cut and has an exclusive effect on the immanent switch-on and

If ou pass to the programmed switch-on status or any other status, the

• press $\fbox{}$ and $\fbox{}_{\odot}$ for 1 s: the lower part of the display will show

• press h_{Δ} within 15 s to select another switch-on already

• press 🔐 : the "delay" LED will switch-on, after which the instrument

press and or do not operate for 15 s (any modifications will

The exclusion of a switch-on is re-proposed also after a power cut; the

switch-ons excluded are re-proposed in the following day and time

If you pass to the programmed switch-on status or any other status,

not be saved)

of another already programmed make sure that the instrument is in the programmed switch-on status

Exclusion of the next switch-on for the benefit

the day of the week and the time of next switchon and the "delay" LED will flash. The day is displayed in the 1 ... 7 format (number 1 corresponds to

To modify the program that will be started-up on switch-on:

Monday), the time in the 24 hour format (hours:minutes)

Temporary modification of the next switch-on time

of the program that will be started-up on switch-

on, the lower part will show the day of the week

and the time of the next switch-on: the indication

relative to the day and the "delay" LED will flash.

programmed, the lower part of the display will show "--:--")

modifications will not be saved)

(i.e. before modifying the minutes: any

switch-off.

this paragraph. To go back to the previous level: press ☺ during the procedure.

To exit the procedure in advance:

make sure no procedure is in progress

If the instrument is in the programmed switch-on status:

To exit the procedure:

status.

switch-on status:

will show "P -")

■ press () and () 1 s:

• the "delay" LED will be on

and no procedure is in progress

• press → or ⇒ within 15 s

press → or
 or
 within 15 s

• press 📢 or 🛛 ≼ within 15 s

will flash

• press → or (≤), within 15 s

To go back to the previous level:

press () during the procedure.

To exit the procedure in advance:

not on those previously set.

12.4

modification will not be re-proposed.

and no procedure is in progress

Monday), the time in the 24 hour format.

will exit the procedure.

programmed

To exit the procedure in advance:

the exclusion will not be re-proposed.

circumstances.

will exit the procedure.

• the 🕦 LED will be on.

To access the procedure:

To modify the day:

To modify the hour:

To modify the minutes:

12.3

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15.1

ALARMS

Alarms

CODE MEANING

13	SIGNALS
3.1	Signals
LED	MEANING
M	temperature regulation LED
***	if on, the output for the regulation of the temperature will
	be on
	if it flashes, the modification of the work set-point is in
	progress (with the procedures indicated in paragraphs 4.3,
	4.4, 4.5, 4.6 and 4.7)
	Grill LED
	if it is on, the grill will be on
	if it flashes, the duration of grill switch-on is being modified
	(with the procedure indicated in paragraph 4.6)
	if it flashes for 1's every 3, cyclical switch-on of the grill will
-28	Steam injection LED
-	if it is on:
	and the parameter t0 is set at 0, the steam injection will
	be in progress
	 and the parameter t0 is set at 1, the steam injection will
	be enabled
	if flashing:
	 parameter t2 is being modified (with the procedure
	indicated in paragraph 4.5)
	Airhole LED
	if it is on, the airhole will be switched-on in manual mode
	if flashing:
	• the airhole will be on due to the effect of the conclusion
	or the steam cooking phase (parameter c6)
	indicated in paragraph 4.5)
°C	Degrees Celsius I ED
-	if it is on, the unit of measurement of the temperatures will
	be the degree Celsius (parameter P2)
°F	Degrees Fahrenheit LED
	if it is on, the unit of measurement of the temperatures will
	be the degree Fahrenheit (parameter P2)
Ð	on/stand-by LED
	if it is on, the instrument will be in the programmed switch-
	on status or in the stand-by status
delay	programmed switch-on LED
	in it is on, the instrument will be in the programmed switch-
	if it flashes setting of the day and time of programmed
	switch-on will be in progress
timer	cooking phase duration LED
	if on, the quantity displayed by the lower part of the display
	will be the duration of the cooking phase
	if flashing:
	 modification of the cooking phase duration is being
	modified (with the procedures indicated in paragraphs
	4.3, 4.5 and 4.7)
	• the count of the duration of the cooking phase will be in
	progress but the lower part of the display will be showing
clock	real time LED
CIOCK	if it is on the quantity shown on the lower part of the
	display will be the real time
	if it flashes, setting of the day and real time will be in progress
set	set-point LED
	if on, the quantity displayed by the lower part of the display
	will be the value of the work set-point of the phase in
	progress or the core set-point.
1	• the quantity displayed by the lower part of the display
-	will be the work set-point of the phase in progress
z	• the quantity displayed by the lower part of the display
	will be the core set-point value
4 1	
	MEANING
P -	the start-up of any program is not envisioned on
	programmed switch-on of the instrument
P 0 9	the start-up of program 0 9 is envisioned on the
	programmed switch-on of the instrument
PrEH	the pre-heating phase is in progress
rdY	the pre-heating phase has been concluded
PAUS	the cooking phase has been concluded
count	the time is missing established with the parameter c9 to
time	the conclusion of the timed cooking phase, of the stem
c9	cooking phase or the grill cooking phase
End	the cooking phase has been concluded
EndP	the program is concluded
	and the second sec
	the quantity to be displayed is not available (e.g. because

1 ... 9 the first ... ninth program will be in execution

	Solutions:
	 verify the chamber temperature
	 see parameters A1 and A3
	Consequences:
	 the alarm output will be switched-on
	 the acoustics output and the buzzer output will be
	switched-on
id	Multifunction input alarm (only if parameter i5 is set at 4
	Solutions:
	 check the causes that caused activation of the input
	 see parameters i5 and i6
	Main consequences:
	 the temperature regulation output will be switched-off
	• the grill will be off
	the steam injector will be off
	the steam injector will be on the fap will be off
	 the coupt of the duration of the cooking phase will be
	the count of the duration of the cooking phase will b
DE1	suspended
FFI	of duration shorter than the time established with paramet
	r13
	Solutions:
	Dress a key to restore the normal display
	check the causes of the power cut
	Main consequences:
	 the count will continue even when the instrument is n
	powered
	• when the power supply is restored, the acoustic outp
	and the buzzer output will be switched-on
PF2	power cut alarm during the cooking phase with interruptic
	of duration longer than the time established with paramet
	r13
	Solutions:
	• press a key to restore the normal display
	 check the causes of the power cut
	check the causes of the power cut Main consequences:
	 check the causes of the power cut Main consequences: the cooking phase will be interrupted
	 check the causes of the power cut Main consequences: the cooking phase will be interrupted when the power supply is restored, the acoustic outpit
	 check the causes of the power cut Main consequences: the cooking phase will be interrupted when the power supply is restored, the acoustic output and the buzzer output will be switched-on
When the o	 check the causes of the power cut Main consequences: the cooking phase will be interrupted when the power supply is restored, the acoustic outpl and the buzzer output will be switched-on cause of the alarm has disappeared, the instrument restored
When the o	 check the causes of the power cut Main consequences: the cooking phase will be interrupted when the power supply is restored, the acoustic outpl and the buzzer output will be switched-on cause of the alarm has disappeared, the instrument restor- ictioning, except for power cut alarms during the cooking
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of the day and real time.

PT = 21/10

TECHNICAL DATA 17 17.1 **Technical data** Container: grey self-extinguishing. Front panel protection rating: IP 54. Connections: extractable terminal board (power supply, inputs and outputs), 6 pole connector (serial). Temperature of use: from 0 to 55 °C (from 32 to 131 °F, 10 ... 90% relative humidity without condensate). Power supply: 115 ... 230 Vac, 50/60 Hz, 5 VA (approximate) or 24 Vac, 50/60 Hz, 5 VA. Maintaining the clock data in a power cut: 24 h with battery charged. Battery charging time: 2 min without interruptions (the battery is charged by the instrument power supply). Alarm buzzer: incorporated. Measurement inputs: 2 (chamber probe and core probe) for J/K thermocouple or Pt 100 2-wire probe (according to the model). Digital inputs: 2 inputs: • on/stand-by input in high voltage conditions (230 Vac) with polarity that can be configured multifunction input for NO/NC contact (5 V 1 mA) potential-free contact). Range of measurement: from -99 to 800 °C (from -99 to 999 °F) for thermocouple J, from -99 to 999 °C (from -99 to 999 °F) for thermocouple K, from -99 to 650 °C (from -99 to 999 °F) for Pt 100 probe Resolution: 1 °C/1 °F. Digital outputs: 6 relays: • temperature regulation (K1 relay): 8 A res. @ 250 Vac (NO) • grill (K2 relay): 8 A res. @ 250 Vac (NO) • utility that can be set (K3 relay): 8 A res. @ 250 Vac (exchange contact) • steam injection (K4 relay): 8 A res. @ 250 VCA (NO contact) • fan (K5 relay): 8 A res. @ 250 Vac (NO contact) • utility that can be set (K6 relay): 8 A res. @ 250 Vac (exchange contact) The maximum current accepted on the clamp 23 is 10A. To set the utility managed by the relay K3 and relay K6, see paragraph 5.1. Other outputs: buzzer output (12 V, max. 20 mA); the output is switched-on during the alarms and errors, with continuous contribution. Serial port: port for communication with the supervision system (via a serial interface, via TTL, with MODBUS communication protocol) or using the programming key.

18	WORK SET-POINT AND CONFIGURATION PARAMATERS				
18.1	Wo	rk set-p	oint		
	MIN	MAX	U.M.	DEF.	WORK SET-POINT
	r1	r2	°C/°F (1)	150	Work set-point of the timed cooking phase
	r/	r8	°C/°F (1)	150	set pint at core
	ri 1	r2	-C/-F (I)	150	Work set-point of the core cooking phase
	r 1	12		150	work set-point of the steam cooking prase
	ri ri	r2	°C/°F (I)	150	Work set-point of the grill cooking phase
18.7	Con	figura		motors	
PARAM		MAX	цоп рага Плм		
SP1	r1	r2	°C/°F (1)	150	Work set round
SP2	r7	r8	°C/°F (1)	150	set pint at core
SP3	r1	r2	°C/°F (1)	150	work set-point of the core cooking phase
SP4	r1	r2	°C/°F (1)	150	work set-point of the steam cooking phase
SP5	r1	r2	°C/°F (1)	150	work set-point of the grill cooking phase
SP6	r1	r2	°C/°F (1)	150	work set-point of the continuous cooking phase
PARAM.	MIN	MAX	U.M.	DEF.	MEASUREMENT INPUTS
CA1	-25/-50	25/50	°C/°F (1)	0	chamber probe offset
CA2	-25/-50	25/50	°C/°F (1)	0	core probe offset
PO	0	1		0	type of probe (2)
D 2	0	1		0	I = K
12		l'		Ŭ	a - c
P4	0	1		0	enabling the core probe
					1 = YES
P5	0	3		0	quantity displayed by the upper part of the display during the on status in progress of normal functioning mode
					0 = chamber temperature
					1 = work set-point of the phase in progress
					2 = core temperature (4)
-					3 = core set-point (4)
P6	0	6		6	quantity displayed by the lower part of the display during the on status in progress of normal functioning mode
					v = chaniber temperature
					1 - volk scrybink of the diration of the cooking phase in progress
					2 - dourie of and our addition of the economy prices in progress 3 - day and real time
					$a = \cos \sin \cos \sin \cos \cos \sin \cos \cos \sin \cos \cos \sin \sin \cos \sin \sin \sin \sin$
					5 = core set-point (6)
					6 = most significant quantity for the event in progress:
					"PrEH" during the pre-heating phase
					• "rdY" flashing on conclusion of the pre-heating phase
					• "End" flashing on conclusion of the cooking phase
					"EndP" flashing on conclusion of the program
					"PAUS" flashes during the suspension of the cooking phase
					count of the duration of the cooking phase, during the timed cooking phase, during the steam cooking phase and during the grill cooking phase
					core temperature during the core cooking phase
DADANA	AAINI	A 4 4 X	11.1.1.4	DEE	Construction of the continuous cooking phase
r0	1	99	°C/°E (1)	5	Inverse RECORPTION
r1	0	r2	°C/°F (1)	50	nonse point of any cooking phase and of the Hornset point of any cooking phase
r2	r1	999	°C/°F (1)	350	maximum work set-point of any cooking phase
r4	0	99	°C/°F (1)	10	work set-point of the pre-heating phase (relative to the work set-point of the cooking phase following pre-heating, i.e. "work set-point of the cooking phase following pre-heating + r4")
r7	0	r8	°C/°F (1)	50	core minimum set-point
r8	r7	999	°C/°F (1)	350	core maximum set-point
r11	0	1		1	enabling the pre-heating phase
12		240		240	
r15	0	1		240	autation of the power cut that occurs during a country prize, after exceeding which the coll count of the power cut that occurs during a country for the regulation of the temperature during the count of the tem
115		l.		Ŭ	I = VFS
r16	0	1		0	switch-off of the output for the regulation of the temperature during switch-off of the fan.
-	-				1 = YES
r17	0	1		0	switch-on of the grill only once before the conclusion of the grill cooking phase (for the time established with the parameter c11)
					1 = YES
PARAM.	MIN	MAX	U.M.	DEF.	DURATION OF THE COOKING PHASES
d1	00:01	24:00	h:min	00:30	duration of the timed cooking phase
d3	00:01	24:00	h:min	01:00	duration of the core cooking phase during the core probe error
d4	00:01	24:00	n:min	00:30	auration or the steam Cooking phase
	00:01	24:00	n:min	00:30	duration of the grill cooking phase
t0	0	1	U.IVI.	DEF.	STEAM INDECTION STEAM INDECTION STEAM INTERCION STEAM INTERCION STEAM INTERCION STEAM INTERCION
10		l.		Ŭ	$0 = \operatorname{pressing}$ the rest key will cause the injection of the steam for the time established with parameter 12 or for the entire duration that the key is pressed: the parameter 11
					establishes the minimum time that will pass between the two successive injections.
					1 = pressing the 🤖 key enables the automatic injection of the steam in a cyclical manner (the parameter t2 establishes the duration of switch-on of the injector and the
					parameter t1 establishes the duration of switch-off.
t1	0	250	s	1	if t0 = 0, minimum time that passes between two successive injections
		25-		1.0	lif t0 = 1, duration of injection switch-off
t2	1	250	ds (8)	10	(if t0 = 0, minimum injection duration
-5	0	1		0	if t0 = 1, duration of injection switch-on
IJ	0	1		U	In the devices the status of the fail and statin injection.
					 a regression or a second single condition that the fair is off 1 – steam is allowed on condition that the fair is off (during fair switch-off)
PARAM	MIN	MAX	U.M	DFF	VARIOUS
c1	1	60	min	5	cycle time for grill switch-on, see also c11
c4	-1	120	s	15	duration of switch-on of the buzzer and the acoustic output on the conclusion of the pre-heating phase and the conclusion of any cooking phase, see also c9
					-1 = the buzzer and the acoustic output must be off in manual mode by pressing a key
с5	0	60	min	20	time that passes between switch-on of the airhole and the conclusion of the steam cooking phase; see also c6
c6	0	60	min	20	duration of switch-on of the airhole on conclusion of the steam cooking phase; see also c5
c/	00:00	60:00	min:s	00:30	duration of airnole switch-on in manual mode
LØ	0	'		ľ	uspiay or the real time in the lower part of the display during the stand-by status

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с9	0	120	s	10	time that passes between the switch-on of the buzzer and the acoustic output and the conclusion of a timed cooking phase, a steam cooking phase and a grill cooking phase;		
					see also c4		
c11	0	100	%	25	duration of grill switch-on (percentage of c1)		
c12	0	999	min	60	time that must pass (from programmed switch-on of the instrument) without having to operate on the keys (or with the multifunction input) so that the instrument passes to the		
					programmed switch-on status again		
					0 = no function		
PARAM	MIN	MAX	UM	DFF	FAN		
F2	0	1		1	enabling of reversal of the direction of the fan movement		
	ľ						
F3	1	120	c	15	$\frac{1}{1}$ duration of fan switch-off (time between switch-off of the fan output and switch-on of the reversal of the direction of the fan movement: only if E2 = 11		
F4	1	60	min	3	duration of every fan governent direction of witch-on of the fan output and the inversion output of the direction of governent of the fan -1 (i) (F2 = 1)		
PAPAM	MIN	MAY	LIM	DEE			
A 1	0	999	°C/°E (1)	0	The two of the second		
47	0	240	min	0	chamber topporture over which are chamber temperature alarm is activated, see also to 17		
A2	0	240		0			
70	ľ	2		0			
DADANA	A 415 1	1.4AX		DEE	2 = relative to the work set-point of the phase in progress [i.e. work set-point of the phase in progress + AT]		
PARAIVI	. MIIN	IVIAX	U.M.	DEF.	DigitAL INPUTS		
11	0	1		0	Jon/stand-by input polarity		
					0 = live active input		
					I = non-live active input		
i5	0	4		0	effect caused by the activation of the multifunction input		
					0 = no effect		
					1 = <u>SWITCH-ON/OFF OF THE CHAMBER LIGHT</u> - the activation of the input will cause the chamber light to switch-on and the successive activation causes its switch-off		
					2 = BUZZER SWITCH-OFF, ACOUSTIC OUTPUT AND BUZZER OUTPUT - The activation of the input will cause the buzzer, the acoustic output and the buzzer output to switch-off		
					(activate the input again to switch these utilities off)		
					3 = <u>STEAM INJECTION</u> - in this case:		
					• if t0 = 0, the activation of the input will cause the injection of the steam for the time established with parameter t2 or for the entire duration of the activation of the input (the		
					parameter t1 establishes the minimum time that will pass between the two successive injections) (10)		
					• if t0 = 1, the activation of the input will enable the automatic injection of the steam (in cyclical mode; the parameter t2 establishes the duration of the injector switch-on and		
					parameter t1 establishes the duration of switch-off) until the input is activated again (10)		
					4 = DOOR MICRO SWITCH - the activation of the input will cause the switch-off of the output for the requilation of the temperature, of the grill, of the airhole, of the steam injector		
					and the fan. the display of the flashing "id" code, the switch-on of the buzzer, the acoustic output and the buzzer output and the suspension of the count of the duration		
					of the phase until the input is deactivated; see also i7 and i8 (11)		
i6	0	1		0	type of contact of the multifunction input		
					0 = NO (input active with closed contact)		
					I = NC (input active with open contact)		
i7	0	120	min	0	The importance method part contact $f = -4$		
iß	0	7		0	mation advertised in the second time as a second to be pre-beating phase to the cooking phase following the pre-beating phase		
10	ľ	2		0	A - presign the C - key for 1 c		
					$\sigma = pressing the \bigcup_{i} key for 1 s and activation and suscessive deactivation of the multifunction input (only if I_{i} = 4)$		
					$\Gamma = pressing the O_{0}$ Key of Γ sind advation and advectory of the multiplicity of the multiplicity in $\Gamma = 4$		
	AAINI	N 4 4 X	11.0.4	DEE			
	1	247	U.IVI.	DEF.	Serve Net work (NDDDUS)		
LA	1	247		247	Instrument sportezz		
LD	0	3		2			
					0 = 2.400 bald		
					1 = 4.800 baud		
					2 = 9.600 baud		
					3 = 19.200 baud		
LP	0	2		2	parity		
					0 = none (no parity)		
					I = odd		
					2 = even		
(1)	the un	it of mea	asurement o	depends	on parameter P2		
(2)	(2) the parameter P0 is not available in the models for Pt 100 2-wire probes						
(3)	appro	priately	set the	parame	ters relative to the regulators after modification of parameter P2		
(4)	if para	meter P4	is set at 0,	the instr	ument will function as if the parameter P5 is set at 0		
(5)	if para	meter P6	is set at val	ues diffe	erent to 6, these will have no effect in the following conditions:		
	- duri	ng the p	re-heating (ohase (tl	ne lower part of the display will show "PrEH")		
	- on t	he concl	lusion of the	e pre-he	ating phase, in stand-by for start-up of the cooking phase (the lower part of the display shows flashing "rdY")		
 during the pre-heating phase (the logon conclusion of the cooking phase) 				ohase (tl	ne lower part of the display will show flashing "PAUS")		
				oking pl	nase (the lower part of the display will show flashing " End ")		

- on conclusion of the program (the lower part of the display will show flashing "EndP")

- during the core cooking phase (if P6 = 2) and during the continuous cooking phase (the lower part of the display will show "----")

if parameter P4 is set at 0, the instrument will function as if the parameter P6 is set at 0

(7) if the power supply cut-off is shorter than the time set with parameter r13, the count will also continue hen the instrument is no longer powered. Parameter r13 has no effect during the core cooking phase and during the continuous cooking phase

(8) ds = tenths of second

(6)

(9) the parameter differential is 10 °C/18 °F

(10) pressing the 🚓 key causes the associated effect

(11) if parameter is is set at 4 and parameter i8 is set at 1, the "id" code cannot be displayed, the buzzer, the acoustic output and the buzzer output will not be switched on.



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