EV9303 Thermostat-digital timer with 3 outputs for electric ovens, with cooking timer function

(E) ENGLISH

1 IMPORTANT

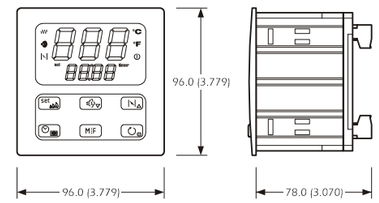
1.1 Important

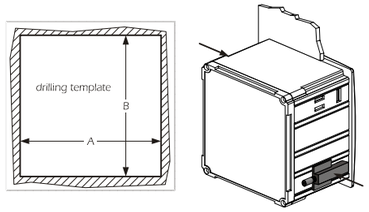
Read these instructions carefully before installation and use and follow all warnings regarding installation and for the electric connection. Keep these instructions with the instrument for future reference.

The instrument must be disposed of in compliance with local Standards relative to the collection of electrical and electronic appliances.

1.2 Dimensions and installation

Panel with supplied brackets with screws; dimensions in mm (in).





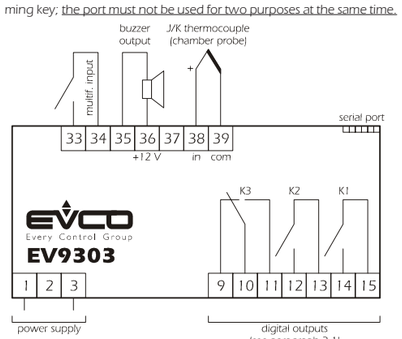
DIMENS.	MINIMUM	TYPICAL	MAXIMUM
A	92.0 (3.622)	92.0 (3.622)	92.8 (3.653)
B	92.0 (3.622)	92.0 (3.622)	92.8 (3.653)

Installation recommendations:

- 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 (resistances, hot air pipes, etc.), appliances with strong magnets (large diffusers, etc.), places subject to direct sunlight, rain, humidity, excessive dust, mechanical vibrations or jerks
- in compliance with Safety Standards, protection against any contact with electrical parts must be assured via correct installation of the instrument. All parts that ensure protection must be fixed in a way that they cannot be removed without the aid of a tool.

1.3 Electric connection

With reference to the wiring diagram, the serial port is the communication port with the supervising system (through a serial interface, via TTL, with MODBUS communication protocol) or with the programming key; the port must not be used for two purposes at the same time.



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 place, the humidity could condense inside; wait for about one hour before applying power
- check that the power supply voltage, the frequency and the electric operational power of the instrument correspond with those of the local power supply
- disconnect the power supply before performing any type of maintenance
- supply the probe with protection able to isolate it from 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 Evco sales network.

2 PRELIMINARY CONSIDERATIONS

2.1 Preliminary considerations

It is possible to select the utilities managed by the digital outputs (i.e. relays K1, K2 and K3) among a series of four combinations (instrument codes 1, 2, 3 and 4); a fifth combination (instrument code 0) allows to set the utility managed by each output independently.

INSTR. CODE	RELAY K1 UTILITY	RELAY K2 UTILITY	RELAY K3 UTILITY
0	can be set (default temperature regulation)	can be set (default airhole)	can be set (default steam injection)
1 (default)	temperature regulation	airhole	alarm
2	temperature regulation	chamber light	cooking timer
3	temperature regulation	chamber light	steam injection
4	temperature regulation	airhole	acoustics

To set the instrument code, see paragraph 4.1; to set the utility managed by each output, see paragraph 4.2.

2.2 Management of the utilities

Temperature regulation.
The output activity mainly depends on the chamber temperature, the work set-point and the parameter r0.
Airhole.
The output is activated in the following conditions:

- before the conclusion of the cooking timer count (of the time established with the parameter c5), for the time established with parameter c6
- in manual mode, for the time established for parameter c7.

Steam injection.
The output activity depends mainly on parameter t0.
Through the multifunction input it is also possible to activate the output in remote mode.
Alarm.
The output is activated during a temperature alarm.
Chamber light.
The output is activated in manual mode.
Cooking timer.
The output is activated during the cooking timer count.
Acoustics.
The output is activated in the following conditions:

- before the conclusion of the cooking timer count (of the time established with the parameter c9), for the time established with parameter c4
- during an alarm or an error, with continuous contribution.

In spite of the fact that the instrument can manage the 7 utilities stated in this paragraph, there are 3 digital outputs available. Make sure that the desired utility is managed by the instrument (see paragraph 2.1).

3 USER INTERFACE

3.1 Preliminary considerations

The following functioning states exist:

- the "on" state (the instrument is powered and on: the regulators can be on)
- the "stand-by" state (the instrument is powered but switched off via software: the regulators are off)
- the "off" state (the instrument is not powered).

Successively, the term "switch-on" means the passage from the stand-by state to the on state. The term "switch-off" means the passage from the on state to the stand-by state.
When powered, the instrument re-proposes the state that it was in when the power supply was disconnected.

3.2 Instrument switch-on/off

To pass from the stand-by state to the on state (and vice versa):

- make sure no procedure is in progress
- press for 1s.

3.3 The display

If the instrument is in the on state:

- the upper part of the display will show the quantity established with parameter P5:
  - if P5 = 0, the display will show the chamber temperature
  - if P5 = 1, the display will show the work 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 (in this case the "**set**" LED will be on)
  - if P6 = 2, the display will show the value of the cooking timer or its count if the timer is active (in this case the "**timer**" LED will be on); the value of the cooking timer is displayed in the hours:minutes format.

See also paragraphs 3.4 and 3.6.
If the instrument is in the stand-by state:

- the upper part of the display will be off
- the lower part of the display will be off
- the LED will be on.

3.4 Learning the quantity shown by the upper part of the display during the on state

- make sure no procedure is in progress
- press and : the upper part of the display will show one of the labels given in the following table for 2 secs:

LABEL	MEANING
Pb	chamber temperature
SP	work set-point

3.5 Temporary setting of the quantity shown by the upper part of the display during the on state

- make sure no procedure is in progress
- press and for 1s several times: the upper part of the display will show one of the labels given in the table in paragraph 3.4 for 2 secs, after which it will show the corresponding value.

Any power supply cut-off causes the display of the quantity established with parameter P5 to be restored.

3.6 Learning the quantity shown by the lower part of the display during the on state

- make sure no procedure is in progress
- press and : the lower part of the display will show one of the labels given in the following table for 2 secs:

LABEL	MEANING
Pb	chamber temperature
SP	work set-point
tine	value of the cooking timer or its count if the timer is active

3.7 Temporary setting of the quantity shown by the lower part of the display during the on state

- make sure no procedure is in progress
- press and for 1s several times: the lower part of the display will show one of the labels given in the table in paragraph 3.6 for 2 secs, after which it will show the corresponding value.

Any power supply cut-off causes the display of the quantity established with parameter P6 to be restored.

3.8 Chamber light switch-on/off

- make sure no procedure is in progress
- press MF

If the chamber light is not managed by any digital output, pressing the MF key will cause the display of the "**no**" indication for 1s in the lower part of the display.

3.9 Buzzer silencing

- make sure no procedure is in progress
- press a key (the first time the key is pressed, the associated effect is not caused).

Pressing the key also causes the deactivation of the acoustic output and the buzzer output.
Using the multifunction input, it is also possible to deactivate the buzzer, the acoustic output and the buzzer output in remote mode.

4 SETTINGS

4.1 Setting the instrument code

To access the procedure:

- make sure that the instrument is in stand-by state and that no procedure is in progress
- press and for 4s: the upper part of the display will show "**PA**"
- press : the lower part of the display will show the corresponding value
- press or within 15s to set "**743**"
- press
- press and for 4s: the upper part of the display will show "**CFG**".

To modify the instrument code:

- press : the lower part of the display will show the corresponding value
- press or within 15s
- press

To exit the procedure:

- press and for 4s.

The modification of the instrument code does not cause the configuration parameters default value to be restored.

4.2 Setting the utility managed by each digital output (only if the instrument code is set at 0)

To access the procedure:

- make sure that the instrument is in stand-by state and that no procedure is in progress
- press and for 4s: the upper part of the display will show "**PA**"
- press : the lower part of the display will show the corresponding value
- press or within 15s to set "**743**"
- press
- press and for 4s: the upper part of the display will show "**CFG**"
- press or to select "**do1**", "**do2**" or "**do3**".

The label meaning is the following:

LABEL	MEANING
do1	utility managed by the first digital output (relay K1)
do2	utility managed by the second digital output (relay K2)
do3	utility managed by the third digital output (relay K3)

To modify the utility managed by an output:

- press : the lower part of the display will show the corresponding value.

The meaning of the values is the following:

VALUE	MEANING
0	not used
1	temperature regulation
2	airhole
3	steam injection
4	alarm
5	chamber light
6	cooking timer
7	acoustics

- press or within 15s
- press

To exit the procedure:

- press and for 4s.

If the instrument code is not set at 0, display only is allowed but not the modification of the value corresponding to the utility managed by the output.

4.3 Setting the work set-point

- make sure that the instrument is in on state and that no procedure is in progress
- press : the lower part of the display will show "**SP**", the upper part the corresponding value and the LED will flash
- press or within 15s; see also parameters r1 and r2
- press : the LED will switch-off, after which the instrument will exit the procedure.

To exit the procedure in advance:

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

It is also possible to set the work set-point via the SP parameter.

4.4 Setting the configuration parameters

To access the procedure:

- make sure that the instrument is in stand-by state and that no procedure is in progress
- press and for 4s: the upper part of the display will show "**PA**"
- press : the lower part of the display will show the corresponding value
- press or within 15s to set "**-19**"
- press or do not operate for 15s
- press and for 4s: the upper part of the display will show "**SP**".

To select a parameter:

- press or

To modify a parameter:

- press : the lower part of the display will show the corresponding value
- press or within 15s
- press or do not operate for 15s.

To exit the procedure:

- press and for 4s or do not operate for 60 s (any modifications will be saved).

Cut the instrument power supply off after modification of the parameters.

4.5 Restore the default value of the configuration parameters

- make sure that the instrument is in stand-by state and that no procedure is in progress
- press and for 4s: the upper part of the display will show "**PA**"
- press : the lower part of the display will show the corresponding value
- press or within 15s to set "**743**"
- press or do not operate for 15s
- press and for 4s: the upper part of the display will show "**CFG**"
- press or to select "**dEF**"
- press : the lower part of the display will show the corresponding value
- press or within 15s to set "**149**"
- press or do not operate for 15s: the upper part of the display will show "**dEF**" flashing for 4s, after which "**dEF**" will switch on
- cut the instrument power supply off.

To exit the procedure in advance:

- press and for 4s during the procedure (i.e. before setting "**149**": restore will not be carried out).

Make sure that the default value of the parameters is appropriate.

5 COOKING TIMER

5.1 Preliminary considerations

The cooking timer allows to start the reverse countdown of a time.
The count is shown in the lower part of the display; during the count the "**timer**" LED is on and the timer output is activated.
Before conclusion of the count (of the time established with parameter c9) the buzzer and the acoustic output are activated, for the time established with parameter c4.
Before conclusion of the count (of the time established with parameter c5) the airhole is activated, for the time established with parameter c6.
Using the multifunction input, it is also possible to start/interrupt the cooking timer in remote mode.

5.2 Setting the cooking timer

- make sure that the instrument is in the on state, that the cooking timer count is not in progress and that no procedure is in progress
- press and : the lower part of the display shows the value of the cooking timer; the left part and the "**timer**" LED will flash.

The value of the cooking timer is displayed in the hours:minutes format.
To modify the hour:

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

To modify the minutes:

- press or within 15s.

The cooking timer can be set between 00:00 and 24:00 h:min.

- press : the "**timer**" LED will switch-off, after which the instrument will exit the procedure.

To go back to previous levels:

- press several times during the procedure.

To exit the procedure in advance:

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

The cooking timer can also be set when the count is in progress (this modification is temporary, i.e. any power supply cut-off causes the value set with the procedure given at the start of this paragraph to be restored).
If the value is set at 00:00 h:min, the count will be interrupted, the "**timer**" LED will switch-off and the buzzer will be activated for 3 seconds.

5.3 Starting the cooking timer

- press during timer setting: the "**timer**" LED will switch on.

Alternatively:

- make sure that the instrument is in on state and that no procedure is in progress
- press : the "**timer**" LED will switch on.

5.4 Interrupting the cooking timer

- press for 1s: the "**timer**" LED switches off and the buzzer will be activated for 3s.

6 STEAM INJECTION

6.1 Preliminary considerations

The functioning mode of the steam injection depends on parameter t0.
If the parameter t0 is set at 0, pressing the key causes the injection of 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 can pass between the two successive injections.
If the parameter t0 is set at 1, pressing the key will enable the automatic injection of the steam (in cyclical mode: parameter t2 establishes the duration of the injector switch-on and parameter t1 establishes the duration of switch-off).
Using the multifunction input, it is also possible to cause the same effect by pressing the key in remote mode.
If the steam injection is not managed by any digital output, pressing the key will cause the display of the "**no**" indication for 1s in the lower part of the display.

6.2 Quick setting of the parameter t2

- make sure that the instrument is in on state and that no procedure is in progress
- press and : the upper part of the display will show "**t2**", the lower part the corresponding value and the LED will flash.

The parameter t2 can be set between 1 and 250 ds.
If steam injection is not managed by any digital output, the lower part of the display will show "**no**" for 1s.

- press or within 15s
- press : the LED will switch-off, after which the instrument will exit the procedure.

To exit the procedure in advance:

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

6.3 Activation of the injector in manual mode (only if parameter t0 is set at 0)

- make sure that the instrument is in on state and that no procedure is in progress
- press : the LED will switch-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 must not be deactivated in manual mode.

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

- make sure that the instrument is in on state and that no procedure is in progress
- press : the LED will switch-on and the injector will be activated in cyclical mode according to that established with parameters t1 and t2 (until the key is pressed again).

7 AIRHOLE

7.1 Preliminary considerations

The airhole is activated in the following conditions:

- before the conclusion of the cooking timer count (of the time established with the parameter c5), for the time established with parameter c6
- in manual mode, by pressing the key for the time established with parameter c7.

If the airhole is not managed by any digital output, pressing the key will cause the display of the "**no**" indication for 1s in the lower part of the display.

7.2 Quick setting of the parameter c7

- make sure that the instrument is in on state and that no procedure is in progress
- press and : the upper part of the display will show "**c7**", the lower part the corresponding value the left part and the LED will flash.

The parameter c7 is visualised in the minutes:seconds format.
To modify the minutes:

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

To modify the seconds:

- press or within 15s.

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 1s.

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

To go back to previous levels:

- press several times during the procedure.

To exit the procedure in advance:

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

7.3 Activation of the airhole in manual mode

- make sure that the instrument is in on state and that no procedure is in progress
- press : the LED will switch on and the airhole will be activated, both for the time established with parameter c7.

7.4 Deactivation of the airhole in manual mode

- make sure no procedure is in progress
- press : the LED will switch-off.

8 SIGNALS

8.1 Signals

LED	MEANING
	temperature regulation LED if it is on, the output for the regulation of the temperature will be activated if it flashes, the work set-point modification is in progress (with the procedure indicated in paragraph 4.3)
	steam injection LED if it is on: ▪ and the parameter t0 is set at 0, steam injection will be in progress ▪ and the parameter t0 is set at 1, steam injection will be in enabled if it flashes, rapid setting of parameter t2 is in progress (see paragraph 6.2)
	airhole LED if it is on, the airhole will be activated in manual mode if it flashes: ▪ the airhole will be activated due to the effect of the conclusion of the cooking timer count (parameter c6) ▪ rapid setting of parameter c7 is in progress (see paragraph 7.2)
°C	degrees Celsius LED if it is on, the unit of measurement of the temperatures will be degrees Celsius (parameter P2)
°F	degrees Fahrenheit LED if it is on, the unit of measurement of the temperatures will be degrees Fahrenheit (parameter P2)
	on/stand-by LED if it is on, the instrument is in the stand-by state
timer	cooking timer LED if it is on, the quantity shown by the lower part of the display will be the value of the cooking timer or its count if the timer will be activated if it flashes: ▪ cooking timer setting is in progress ▪ the cooking timer count will be in progress but the lower part of the display will be showing another quantity
set	work set-point LED if it is on, the quantity shown by the lower part of the display will be the work set-point value

9 INDICATIONS

9.1 Indications

INDICAT.	MEANING
decrease time c9	the time established with parameter c9 is missing ... 1second to the conclusion of the cooking timer count
00:00	flashing: the cooking timer count has ended
no	the function requested is not managed by any digital output

10 ALARMS

10.1 Alarms

CODE	MEANING
AL	temperature alarm Remedies: ▪ check the chamber temperature ▪ see parameters A1 and A3 Consequences: ▪ the alarm output will be activated ▪ the acoustics output and the buzzer output will be activated

PF1	power supply cut-off alarm during the cooking timer count Remedies: ▪ press a key to restore the normal display ▪ check the causes that brought about the power supply cut-off Main consequences: ▪ on power supply restore, the count will continue with a maximum error of 3 min ▪ on power supply restore, the acoustics output and the buzzer output will be activated

When the cause of the alarm disappears, the instrument restores normal functioning, except for the power supply cut-off alarm during the cooking timer count (code "**PF1**") which requires a key to be pressed.

11 INTERNAL DIAGNOSTICS

11.1 Internal diagnostics

CODE	MEANING
Pr1	chamber probe error Remedies: ▪ see parameter P0 ▪ check probe integrity ▪ check the instrument-probe connection ▪ check the chamber temperature Main consequences: ▪ the temperature regulation output will be deactivated ▪ the acoustics output and the buzzer output will be activated

When the causes of the alarm have disappeared, the instrument will go back to normal functioning.

12 TECHNICAL DATA

12.1 Technical data

Container: grey self-extinguishing.
Front panel protection rating: IP 54.
Connections: removable terminal boards (power supply, inputs and outputs), 6-pole connector (serial port).
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 (approx) or 24 VAC, 50/60 Hz.
Alarm buzzer: incorporated.
Measurement inputs: 1 (chamber probe) for J/K thermocouple.
Digital inputs: 1 (multifunction) or NO/NC contact (potential-free contact, 5 V 1 mA).
Range of measurement: from -99 to 800 °C (from-99 to 999 °F) for J thermocouple, from -99 to 999 °C (from -99 to 999 °F) for K thermocouple.
Resolution: 1 °C/1 °F.
Digital outputs: 3 relays:
- **relay K1:** 8 A res. @ 250 VCA (NO contact)
- **relay K2:** 8 A res. @ 250 VCA (NO contact)
- **relay K3:** 8 A res. @ 250 VCA (contact in exchange).

The utility managed by each output depends on the instrument code (see paragraph 2.1).
Other outputs: buzzer output (12 V, max. 20 mA); the output is activated during alarms and errors, with continuous contribution.
Serial port: port for the communication with the supervising system (through a serial interface, via TTL, with MODBUS communication protocol) or with the programming key.

13 WORK SET-POINT AND CONFIGURATION PARAMETERS

13.1 Work set-point

	MIN.	MAX.	U.M.	DEF.	WORK SET-POINT
	r1	r2	°C/°F (1)	150	work set-point

13.2 Configuration parameters

PARAM.	MIN.	MAX.	U.M.	DEF.	WORK SET-POINT
SP	r1	r2	°C/°F (1)	150	work set-point
PARAM.	MIN.	MAX.	U.M.	DEF.	MEASUREMENT INPUTS
CA1	-25/-50	25/50	°C/°F (1)	0	chamber probe offset
P0	0	1	----	0	type of probe 0 = J 1 = K
P2	0	1	----	0	temperature unit of measurement (2) 0 = °C 1 = °F
P5	0	1	----	0	quantity shown by the upper part of the display during the on state or during normal functioning 0 = chamber temperature 1 = work set-point
P6	0	2	----	2	quantity shown by the lower part of the display during the on state or during normal functioning 0 = chamber temperature 1 = work set-point 2 = value of the cooking timer or its count if the timer is active
PARAM.	MIN.	MAX.	U.M.	DEF.	MAIN REGULATOR
r0	1	99	°C/°F (1)	5	work set-point differential
r1	0	r2	°C/°F (1)	50	minimum work set-point
r2	r1	999	°C/°F (1)	350	maximum work set-point
r12	0	1	----	0	restraint between the output state for the regulation of the temperature and the cooking timer 1 = YES - the temperature regulation output remains off if the cooking timer count is not in progress
PARAM.	MIN.	MAX.	U.M.	DEF.	STEAM INJECTION
t0	0	1	----	0	steam injection functioning mode 0 = pressing the key causes the injection of 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 can pass between the two successive injections. 1 = pressing the key enables automatic injection of the steam in cyclical mode (parameter t2 establishes the switch-on duration of the injector and parameter t1 establishes switch-off duration)
t1	0	250	s	1	if t0 = 0, minimum time that passes between two successive injections if t0 = 1, injector switch-off duration
t2	1	250	ds (3)	10	if t0 = 0, minimum injection duration if t0 = 1, injector switch-on duration
PARAM.	MIN.	MAX.	U.M.	DEF.	VARIOUS
c4	-1	120	s	15	duration of buzzer activation and the acoustic output on conclusion of the cooking timer count; see also c9 (4) (5) -1= the buzzer and the acoustic output must be deactivated in manual mode by pressing a key
c5	0	60	min	20	time that passes between the activation of the airhole and the conclusion of the cooking timer count, see also c6
c6	0	60	min	20	duration of the activation of the airhole at conclusion of the cooking timer count, see also c5
c7	00:00	60:00	min:s	00:30	duration of the activation of the airhole in manual mode
c9	0	120	s	10	time that passes between the activation of the buzzer and the acoustic output and the conclusion of the cooking timer count, see also c4
PARAM.	MIN.	MAX.	U.M.	DEF.	TEMPERATURE ALARMS
A1	0	999	°C/°F (1)	0	temperature above which the temperature alarm is activated, se also A3 (6)
A2	0	240	min	0	temperature alarm delay
A3	0	2	----	0	type of temperature alarm 0 = no alarm 1 = absolute (i.e. A1) 2 = relative to the work set-point (i.e. "work set-point + A1")
PARAM.	MIN.	MAX.	U.M.	DEF.	DIGITAL INPUTS
i5	0	3	----	0	effect caused by the activation of the multifunction input 0 = no effect 1 = STAR/INTERRUPTION OF THE COOKING TIMER - the activation of the input will cause the cooking timer to start and the successive activation will cause its interruption 2 = BUZZER, ACOUSTIC OUTPUT AND BUZZER OUTPUT DEACTIVATION - the activation of the input will cause deactivation of the buzzer, the acoustic output and the buzzer output (activate the input again to deactivate these utilities again) 3 = STEAM INJECTION - in this case: ▪ if t0 = 0, the activation of the input causes the injection of steam for the time established with parameter t2 or for the entire duration that the key is pressed (parameter t1 establishes the minimum time that can pass between the two successive injections) (7) ▪ if t0 = 1, the activation of the input will enable automatic steam injection (in cyclical mode; parameter t2 establishes the duration of the switch-on of the injector and parameter t1 establishes the duration of switch-off) until the input is activated again (7)
i6	0	1	----	0	type of contact of the multifunction input 0 = NO (input active with closed contact) 1 = NC (input active with open contact)
PARAM.	MIN.	MAX.	U.M.	DEF.	SERIAL NETWORK (MODBUS)
LA	1	247	----	247	instrument address
Lb	0	3	----	2	baud rate 0 = 2,400 baud 1 = 4,800 baud 2 = 9,600 baud 3 = 19,200 baud
LP	0	2	----	2	parity 0 = none (no parity) 1 = odd 2 = even

(1) the unit of measurement depends on parameter P2
(2) **set the parameters relative to the regulators appropriately after modification of parameter P2**
(3) ds = tenths of second
(4) the buzzer and the acoustic output are activated before the conclusion of the cooking timer count (of the time established with the parameter c9), for the time established with parameter c4
(5) if the cooking timer is interrupted (with the procedure given in paragraph 5.4 or by activation of the malfunction input), the duration of buzzer activation and of the acoustic output and the flashing duration of the 00:00 indication will be 3 seconds
(6) the parameter differential is 10 °C/18 °F

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