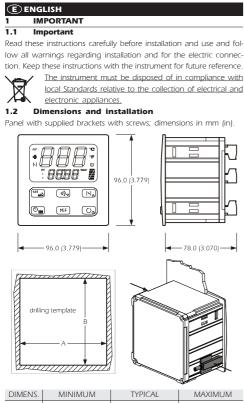
EV9326 Digital controller with 6 outputs for electric bread ovens, with cooking timer and rapid heating functions

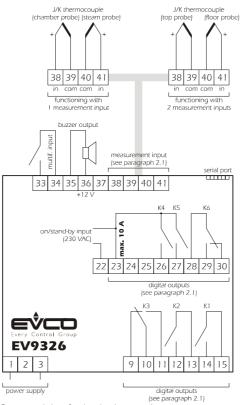


	DIMENS.	MINIMUM	TYPICAL	MAXIMUM		
	А	92.0 (3.622)	92.0 (3.622)	92.8 (3.653)		
	В	92.0 (3.622)	92.0 (3.622)	92.8 (3.653)		
Installation recommendations:						

- 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 port for the communication 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
 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 probes with protection able to isolate them 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

The instrument can be configured to function with 1 measurement input (default, chamber probe) or with 2 measurement inputs (top probe and floor probe). If functioning with 1 measurement input it is however possible to enable a second probe (steam probe) to subordinate the injection of steam at the temperature of the same.

Functioning with 1 measurement input allows to independently set the power distributed to the top to that distributed to the floor. Functioning with 2 measurement inputs allows to independently set the top and floor work temperatures.

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

RELAY		MANAGED UTILITY
	K1	top
	K2	floor
	K3	can be set (default chamber light)
	K4	airhole

- K5 steam injection
- K6 can be set (default steam generator)

To set the type of functioning (with 1 measurement input rather than 2) see paragraph 4.1. However, to set the utility managed by relay K3 and relay K6 see paragraph 4.2.

2.2 Management of the utilities

Top.

- If functioning with 1 measurement input: • the output is switched on in cyclical mode, preferably when the floor output is off (the parameter c1 establishes the cycle time. The
- tioor output is off (the parameter c1 establishes the cycle time. Ine procedure given in paragraph 4.4 can be used to set the duration of output switch-on, intended as a percentage of the time established with parameter c1)
- the cyclical activity is subject to the chamber temperature (chamber probe), to the work set-point and parameter r0.
- If functioning with 2 measurement inputs:
- the output activity depends mainly on the top temperature (top probe), the top set-point and parameter r0. <u>Floor.</u>
- Floor.
- If functioning with 1 measurement input:
- the output is switched on in cyclical mode, preferably when the top output is off (the parameter c1 establishes the cycle time. The procedure given in paragraph 4.4 can be used to set the duration of output switch-on, intended as a percentage of the time established with parameter c1)

- the cyclical activity is subject to the chamber temperature (chamber probe), to the work set-point and parameter r0.
 If functioning with 2 measurement inputs:
- the output activity depends mainly on the floor temperature (floor probe), the floor set-point and parameter r6.
- <u>Chamber light.</u>

The output is activated in manual mode.

Through the multifunction input it is also possible to activate the output in remote mode.

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.

Steam generator.

If functioning with 1 measurement input:

- if the steam probe is not enabled, the output is activated in manual mode
- if the steam probe is enabled, the output is enabled in manual mode, after which the activity of the same will depend on the temperature
- of the steam (steam probe), the steam set-point and parameter t3. If functioning with 2 measurement inputs, the output is activated in manual mode.

<u>Alarm.</u>

The output is activated during a temperature alarm.

Through the multifunction input it is also possible to activate the output in remote 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. <u>On/Stand-by.</u>

The output is activated during the "on" state (see paragraph 3.1). 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 desired utility is managed by the instrument (see paragraph 2.1).

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 standby 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

Through the on/stand-by input it is also possible to pass from the on state to the stand-by state in remote mode.

To pass from the on to the stand-by state in remote mode:

 activate the on/stand-by input (the instrument remains in the standby state for the entire duration of input activation).

If the on/stand-by input is active, it will not be allowed to pass from the stand-by state to the on state by pressing the \bigcirc_{a} key.

3.3 The display

- If functioning with 1 measurement input, if the instrument is in the on
- state:
 the upper part of the display will show the size established with parameter P5:
- if P5 = 0, the display will show the chamber temperature
- If PS = 0, the display will show the champer temperature
 If PS = 1, the display will show the work set-point
- the lower part of the display will show the size 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 3.5 and 3.7.
- If functioning with 2 measurement inputs, if the instrument is in the on state:
- the upper part of the display will show the size established with parameter P5:
- if P5 = 0, the display will show the top temperature
- if P5 = 1, the display will show the top set-point

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- if P5 = 2, the display will show the floor temperature
- if P5 = 3, the display will show the floor set-point
- . the lower part of the display will show the size established with parameter P6:
- if P6 = 0, the display will show the top temperature
- if P6 = 1, the display will show the top set-point (in this case the "set" LED and the "1" 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
- if P6 = 3, the display will show the floor temperature if P6 = 4, the display will show the floor set-point (in this case the "set") LED and the "2" LED will be on).

See also paragraphs 3.5 and 3.7

- 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 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 nd o for 1s several times: the upper part of the display will show one of the labels given in the tables in paragraph 3.5 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.

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

make sure no procedure is in progress

 press _→ and _→: if functioning with 1 measurement input, the upper part of the display will show one of the

labels given in the following table for 2 seconds. LABEL MEANING Pb chamber temperature SP work set-point PbS steam temperature

If the steam probe is not enabled (parameter P4 = 0), the "PbS" label will not be displayed.

if functioning with 2 measurement inputs, the upper part of the display will show one of the labels given in the following table for 2 seconds

LABEL	MEANING
Pb1	temperature of the top
SP1	top set-point
Pb2	temperature of the floor
SP2	floor set-point

3.6 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 $\underset{\textcircled{}}{\circledast}_{\forall}$ and $\textcircled{}_{\textcircled{}}{\textcircled{}}$ for 1s several times: the lower part of the display will show one of the labels given in the tables in

paragraph 3.7 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.

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

• make sure no procedure is in progress

• press $\underline{s}_{\overline{v}}$ and $\underline{v}_{\overline{v}}$: if functioning with 1 measurement input, the lower part of the display will show one of the labels given in the following table for 2 seconds.

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

If the steam probe is not enabled (parameter P4 = 0), the "PbS" label will not be displayed.

if functioning with 2 measurement inputs, the lower part of the display will show one of the labels given in the following table for 2 seconds:

LABEL	MEANING
Pb1	temperature of the top
SP1	top set-point
tine	value of the cooking timer or its count if the timer is active
Pb2	temperature of the floor
SP2	floor set-point

3.8 Chamber light switch on/off

make sure no procedure is in progress

• press MiF

Using the multifunction input, it is also possible to cause the same effect caused by pressing the key MF in remote mode.

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

Buzzer silencingmake 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.

SETTINGS

Setting the type of functioning (with 1 measurement input rather than 2)

To exit the procedure in advance:

set-point via parameter SP2.

4.4

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

with 1 measurement input)

of the LED 🔽 will flash

To modify the power distributed to the floor:

exit the procedure.

press([™]) several times during the procedure.

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

4.5 Setting the configuration parameters

"**PA**"

• press N or Sy within 15s to set "-19"

• press or do not operate for 15s

It is also possible to set the power distributed to the top through pa-

rameter Po1 and the power distributed to the floor through param-

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

• press $[\mathbf{N}_{\Delta}]$ and $[\mathbf{x}_{\nabla}]$ for 4s: the upper part of the display will show

• press : the lower part of the display will show the correspond-

press → and → for 4s: if functioning with 1 measurement input,

• press : the lower part of the display will show the correspond-

■ press 📢 and 🚓 for 4s or do not operate for 60s (any modifica-

Cut the instrument power supply off after modification of

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

• press : the lower part of the display will show the correspond-

 \bullet press $\overbrace{|\mathbf{N}_{\Delta}}^{\underline{w}}$ and $\overbrace{\leqslant_{\mathcal{V}_{\mathcal{V}}}}^{\underline{w}}$ for 4s: the upper part of the display will show

• press : the lower part of the display will show the correspond-

• press or do not operate for 15s: the upper part of the display

• press $[\mathbf{N}_{\mathbb{A}}]$ and $\overline{\text{syp}}$ for 4s during the procedure (i.e. before setting

Make sure that the default value of the parameters is

The count is shown in the lower part of the display; during the count

Before conclusion of the count (of the time established with parameter

c9) the buzzer and the acoustic output are activated, for the time estab-

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

The cooking timer allows to start the reverse count of a time.

the "timer" LED is on and the timer output is activated.

will show "dEF" flashing for 4s, after which "dEF" will

"149": restore will not be carried out).

Restore the default value of the configuration pa-

tions will be saved).

the upper part of the display will show "SP"; if

functioning with 2 measurement inputs, the

upper part of the display will show "SP1".

To go back to previous levels:

To access the procedure:

dure is in progress

To select a parameter:

• press in ≦

To modify a parameter:

To exit the procedure:

the parameters.

rameters

ing value

• press () or (≤) to select "dEF"

ing value

switch on

To exit the procedure in advance:

COOKING TIMER

lished with parameter c4.

cooking timer in remote mode.

Preliminary considerations

appropriate.

5.1

cut the instrument power supply off.

dure is in progress

4.6

ing value • press or within 15s

press er do not operate for 15s.

"**PA**"

• press N_ or (≤) within 15s to set "743" • press or do not operate for 15s

"Pb"

press 🔊 or 🧃 within 15s to set "**149**"

eter Po2.

To exit the procedure in advance:

ing value

instrument will exit the procedure.

To modify the power distributed to the top:

It is also possible to set the top set-point via parameter SP1 and the floor

• press during the modification of the work set-point: the lower

 press → or → within 15s; see also parameters c0 and c1 • non operare per 15 s: the LED 🚩 will switch-off, after which the

press and during the modification of the power distributed to the

number of bars of the LED \checkmark will flash

• press () or (≤) within 15s; see also parameters c0 and c1 • press . the LED _ will switch-off, after which the instrument will

Setting the power distributed to the top and the

power distributed to the floor (only if functioning

part of the display will show "Po1", the upper part the

corresponding value and a proportioned number of bars

top: the lower part of the display will show "Po2", the

upper part the corresponding value and a proportioned

- To access the procedure: • make sure that the instrument is in stand-by state and that no proce-
- dure is in progress

• press h_{Δ} and h_{Ξ} 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
- $\bullet\, {\sf press}$ and ${\rm sys}$ for 4s: the upper part of the display will show "Pb".
- To modify the type of functioning:
- presses : the lower part of the display will show the corresponding value.
- The meaning of the values is the following:
- VALUE MEANING
 - functioning with 1 measurement input (default, chamber probe)
- functioning with 2 measurement inputs (top probe and 2 floor probe)
- press N or Sy within 15s
 press st
- To exit the procedure:
- press → and → for 4s.

The modification of the type of functioning does not cause the configuration parameters default value to be restored.

Setting the utility managed by the relay K3 and the relay K6

To access the procedure

- · make sure that the instrument is in stand-by state and that no procedure is in progress
- press $[n]_{\Delta}$ and $[]_{\forall v}$ for 4s: the upper part of the display will show "**PA**"
- press rescale the lower part of the display will show the corresponding value

• press () or (≤) within 15s to set "**743**"

- press
- press $\overline{[N_{\Delta}]}$ and $\overline{\text{sys}}$ for 4s: the upper part of the display will show "Pb"

• press N_ ≤ 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 set : the lower part of the display will show the corresponding value.

The meaning of the values is the following:

VALUE MEANING not used

1	chamber light
2	steam generator
3	alarm
4	cooking timer
5	acoustics
6	on/stand-by

- press IN_ or Sy within 15s
- To exit the procedure:
- press ||_↓ and s, for 4s.
- 4.3.1 Setting the work set-point (only if functioning with 1 measurement input)

. make sure that the instrument is in on state and that no procedure is in progress

- press set is : the lower part of the display will show "SP", the upper part the corresponding value and the LED $_{
 m WM}$ will flash
- press () or (≤) within 15s; see also parameters r1 and r2

• press 3 times or do not operate for 15s: the LED W 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 4.3.2 Setting the top set-point and the floor set-point

(only if functioning with 2 measurement inputs) To modify the top set-point:

• make sure that the instrument is in on state and that no procedure is in proaress

- press ===== : the lower part of the display will show "SP1 ", the upper part the corresponding value and the LED W will flash
- press N_a or S_v within 15s; see also parameters r1 and r2 • press 2 times or do not operate for 15s: the LED will switch-off, after which the instrument will exit the procedure. To modify the floor set-point:
- press and during the modification of the top set-point: the lower part of the display will show "SP2", the upper part the corresponding value and the LED $\ref{eq:linear}$ will flash

press is or so within 15s; see also parameters r7 and r8
 press is the LED will switch-off, after which the instrument

will exit the procedure.

press several times during the procedure.

To go back to previous levels:

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
- \bullet press \fbox and $\textcircled{O}_{\blacksquare}$: 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 for mat

To modify the hour

• press ℕ or 🚓 within 15s

• press : the right part will flash.

To modify the minutes:

• press N_Δ or Sy within 15s.

The cooking timer can be set between 00:00 and 24:00 h:min. • press(stt_): the "timer" LED will switch-off, after which the instrument will exit the procedure.

To go back to previous levels

press
 Image: 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 0, 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 Cooking timer start and switch-off of the instrument on conclusion of the count

· make sure that the instrument is in on state and that no procedure is in progress

• press rest for 4s: the "timer" LED switches-on and the LED () will flash; the instrument will switch-off when the cour

been concluded 5.5 Interrupting the cooking timer

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

STEAM GENERATOR

6.1 Preliminary considerations

The steam generator allows to subordinate the steam injection to its own state

If functioning with 1 measurement input, if the steam probe is not enabled, pressing the MF and H keys for 1s will cause the steam generator to switch on and successive pressing causes its switch-off; steam injection is allowed on condition that the steam generator is on. If functioning with 1 measurement input, if the steam probe is not generator, after which the activity of the same will depend on the temperature of the steam (steam probe), the steam set-point and parameter t3 (successive pressing of the keys causes the steam generator to be disabled); steam injection is allowed on condition that the temperature of the steam is above that established with the steam set-point or at the minimum. Once the steam set-point has been reached, above the "steam set-point - t4".

If functioning with 2 measurement inputs, pressing the MF and Sp keys for 1s will cause the steam generator to switch on and successive pressing causes its switch-off; steam injection is allowed on condition that the steam generator is on.

If the steam generator is not managed by any digital output, pressing the $\ensuremath{\mbox{MIF}}$ and $\ensuremath{\mbox{sys}}$ keys will cause the display of the "no" indication for 1s in the lower part of the display. In this case, steam injection is always <u>allowed</u>

STEAM INJECTION 7

7.1 Preliminary considerations

The functioning mode of the steam injection depends on parameter t0.

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 $_{\text{sys}}$ 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 caused by pressing the $\overline{(\underline{s})_{\overline{v}}}$ key in remote mode.

Steam injection is subordinate to the steam generator state (see paragraph 6.1).

7.2 Quick setting of the parameter t2

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

- in proaress • press and show "t2", the upper part of the display will show "t2", the
 - lower part the corresponding value and the LED lash.

The parameter t2 can be set between 1 and 250 ds. • press ∣ ℕ 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).

7.3 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

- \bullet press): the LED and will switch-on and the injector will be action vated, 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

Enabling of automatic steam injection (only if pa-7.4 rameter t0 is set at 1)

- make sure that the instrument is in on state and that no procedure is in progress
- press $_{\mbox{(b)}}$: the LED $_{\mbox{(b)}}$ 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). AIRHOLE

8.1 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
- \bullet in manual mode, by pressing the \fbox{k} key for the time established with parameter c7

8.2 Quick setting of the parameter c7

- make sure that the instrument is in on state and that no procedure is in progress
- press and is a constructed of the display will show "c7", the lower part the corresponding value the left part and the LED \bigwedge will flash.
- The parameter c7 is visualised in the minutes:seconds format. To modify the minutes:
- press N ≤ within 15s
- press : the right part will flash. To modify the seconds:

■ press v and so within 15s.

- The parameter c7 can be set between 00:00 and 60:00 min:s. • 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). 8.3 Activation of the airhole in manual mode

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

Deactivation of the airhole in manual mode

• make sure no procedure is in progress

• press $\fbox{}$: the LED \checkmark will switch-off.

ECONOMY

9.1 Preliminary considerations

The economy allows to reduce the power supplied to the top and the power supplied to the floor by switching an output on when the other is off.

If functioning with 1 measurement input, when the function is in progress the top output and the floor output are switched on for half of the duration of the switch-on set using the procedure given in paragraph 4.4 (intended as a percentage of the time established with parameter c1).

If functioning with 2 measurement inputs, when the function is in progress, the top output and the floor output are switched-on alternately for half the time established with parameter c1.

When the time established with parameter c10 has passed, the function is interrupted.

Through the multifunction input it is also possible to activate the economy function in remote mode.

If the rapid heating function is in progress, the economy function cannot be activated.

9.2 Economy activation

• make sure that the instrument is in the on state, that no procedure is in progress and no rapid heating function is in progress

$\bullet\, \text{press}_{\ensuremath{\texttt{MF}}}$ and $\ensuremath{\textcircled{0}}_{\ensuremath{\texttt{0}}}$ for 1s.

When the function is in progress the LED () will flash for 1s every 4s. 9.3 Economy interruption in manual mode

- make sure no procedure is in progress ■ press MF and O, for 1s.
- RAPID HEATING (only if functioning with 1 meas 10 urement input)

10.1 Preliminary considerations

The rapid heating allows to reach the work set-point as quickly as possible, supplying 100% of the power both to the top and the floor (i.e. excluding switch-on of the top and floor outputs in a cyclical way with benefit to switch-on in continuous mode).

When the temperature of the chamber reaches the "work set-point temperature established with parameter c3" value, the function is interrupted.

If the economy function is in progress, the rapid heating cannot be activated.

10.2 Rapid heating activation

make sure no procedure is in progress

top and floor LED

to the top

graph 4.4)

graph 4.4)

if it is on:

progress

enabled

if it flashes:

graph 7.2)

airhole LED

if it flashes:

graph 8.2)

degrees Celsius LED

on/stand-by LED

cooking timer LED

if the timer will be activated

cooking timer setting is in progress

progress

if it flashes:

set-point LED

INDICATIONS

Indications

INDICAT. MEANING

or the floor set-point

will be the top set-point value

will be the floor set-point value

tioning with 1 measurement input)

00:00 flashing: the cooking timer count has ended

decrease the time established with parameter c9 is missing... 1 second

to the conclusion of the cooking timer count

be degrees Celsius (parameterP2) degrees Fahrenheit LED

be degrees Fahrenheit (parameter P2)

if it is on, the instrument is in the stand-by state

steam injection LED

• press for 1s.

11.1 Signals

3

°C

ጠ

time

set

12

12.1

F-F

time

c9

SIGNALS

LED MEANING

11

- causes the event established with parameter c2: - if c2 = 1, press set and for 1s (make sure that the instrument is in the on
- state, that no procedure is in progress and the economy function is not is progress)
- if c2 = 2, pass from the stand-by state to the on state
- if c2 = 3, press (make sure that the instrument is in the on state, that no procedure is in progress and the economy function is not is progress) or pass from the stand-by state to the on state If parameter c2 is set at 0, the function cannot be activated.

When the function is in progress the upper part of the display shows

if it is on, the to output and/or the floor output will be on

if it flashes, the modification of the work set-point, the top

set-point and the floor set-point is in progress (with the

supplies and indication regarding the power distributed

if it flashes, the modification of the power distributed to the

top is in progress (with the procedure indicated in para-

supplies and indication regarding the power distributed

if it flashes, the modification of the power distributed to the

floor is in progress (with the procedure indicated in para-

and the parameter t0 is set at 0, steam injection will be in

and the parameter t0 is set at 1, steam injection will be in

rapid setting of parameter t2 is in progress (see para-

steam injection will not be available (parameter t4)

if it is on, the airhole will be activated in manual mode

. the airhole will be activated due to the effect of the con-

rapid setting of parameter c7 is in progress (see para-

if it is on, the unit of measurement of the temperatures will

if it is on, the unit of measurement of the temperatures will

if it flashes, the cooking timer count is in progress and on conclusion of the count, the instrument will switch-off

if it flashes for 1s every 4s, the economy function will be in

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

the cooking timer count will be in progress but the lower

part of the display will be showing another quantity

if it is on, the quantity shown by the lower part of the

display will be the work set-point value, the top set-point

• the quantity displayed by the lower part of the display

the quantity displayed by the lower part of the display

alternately to the quantity established with parameter P5:

the rapid heating function will be in progress (only if func-

clusion of the cooking timer count (parameter c6)

procedures indicated in paragraphs 4.3.1 or 4.3.2)

power distributed to the top LED

power distributed to the floor LED

"F-F" alternately to the quantity established with parameter P5

10.3 Interruption of rapid heating in manual mode

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

	LARMS	15 TECHNICAL DATA
		15.1 Technical data
ODE AL	MEANING	Container: grey self-extinguishing.
	chamber temperature alarm (only if functioning with 1 measurement input)	Front panel protection rating: IP 54. Connections: removable terminal boards (power supply, inputs and
	Remedies:	outputs), 6-pole connector (serial port).
	check the chamber temperature	Temperature of use: from 0 to 55 °C (from 32 to 131 °F,
	 see parameters A1 and A3 	10 90% relative humidity without condensate).
	Consequences:	Power supply: 115 230 VAC, 50/60 Hz, 5 VA (approx) or 24 VAC,
	• the alarm output will be activated	50/60 Hz.
	• the acoustics output and the buzzer output will be acti-	Alarm buzzer: incorporated.
	vated	Measurement inputs: can be configured:
AL1	top temperature alarm (only if functioning with 2 meas-	• 1 (chamber probe) for J/K thermocouple
	urement inputs)	if functioning with 1 measurement input;
	Remedies:	second input (steam probe) for J/K ther-
	 check the top temperature 	mocouple
	 see parameters A1 and A3 	 2 (top probe and floor probe) for J/K ther-
	Consequences:	mocouple if functioning with 2 measure-
	• the alarm output will be activated	ment inputs.
	• the acoustics output and the buzzer output will be acti-	Digital inputs: 2 inputs:
AL2	vated floor temperature alarm (only if functioning with 2 meas-	 on/stand-by input in high voltage (230 VAC) with
	urement inputs)	configurable polarity
	Remedies:	multifunction input, for NO/NC contact (poten-
	 check the floor temperature 	tial-free contact, 5 V 1 mA).
	• see parameters A5 and A7	Range of measurement: from -99 to 800 °C (from -99 to 999 °F)
	Consequences: • the alarm output will be activated	for J thermocouple, from -99 to 999 °C (from -99 to 999 °F) for
	· · · · · · · · · · · · · · · · · · ·	K thermocouple.
	• the acoustics output and the buzzer output will be acti-	Resolution: 1 °C/1 °F.
id	vated	Digital outputs: 6 relays:
iu.	multifunction input alarm (only if the parameter i5 is set at 5) Remodies:	• top (relay K1): 8 A res. @ 250 VAC (NO)
	Remedies:	floor (relay K2): 8 A res. @ 250 VAC (NO)
	 check the causes that brought about the input activation see parameters i5 and i6 	• utility that can be set (relay K3): 8 A res.
	 see parameters i5 and i6 Main consequences: 	@ 250 VAC (contact in exchange)
	Main consequences: • the top output will be deactivated	• airhole (relay K4): 8 A res. @ 250 VAC (NO
		contact)
	the floor output will be deactivated steam injection will not be available	• steam injection (relay K5): 8 A res. @
	 steam injection will not be available the alarm output will be activated 	250 VAC (NO contact)
	 the alarm output will be activated the acoustics output and the buzzer output will be acti- 	• utility that can be set (relay K6): 8 A res.
	vated	@ 250 VAC (contact in exchange).
PF1	power supply cut-off alarm during the cooking timer count	The maximum current accepted on clamp 23 is 10 A.
••	Remedies:	To set the utility managed by relay K3 and relay K6, see paragraph 4.2.
	 press a key to restore the normal display 	Other outputs: buzzer output (12 V, max. 20 mA); the output is
	 check the causes that brought about the power supply 	activated during alarms and errors, with continuous contribution.
	cut-off	Serial port: port for the communication with the supervising system
	Main consequences:	(through a serial interface, via TTL, with MODBUS communication
	Indin consequences.	
	• on power supply restore, the count will continue with	
		protocol) or with the programming key.
	• on power supply restore, the count will continue with	
	• on power supply restore, the count will continue with a maximum error of 3 min	
en the	 on power supply restore, the count will continue with a maximum error of 3 min the acoustics output and the buzzer output will be acti- 	
functi	 on power supply restore, the count will continue with a maximum error of 3 min the acoustics output and the buzzer output will be activated cause of the alarm disappears, the instrument restores nor- oning, except for the power supply cut-off alarm during the 	
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functi king ti II 1 Ir ODE	on power supply restore, the count will continue with a maximum error of 3 min the acoustics output and the buzzer output will be acti- vated cause of the alarm disappears, the instrument restores nor- oning, except for the power supply cut-off alarm during the mer count (code "PF1") which requires a key to be pressed. VTERNAL DIAGNOSTICS thermal diagnostics MEANING If functioning with 1 measurement input: chamber probe error Remedies:	
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PT = 35/09

6				VER DISTRIB	UTED AND	CONFIGURATION PARAMETERS
		set-poi				WORK SET-POINT
	MIN. r 1	MAX. r2	U.M. °C/°F (1)	1 INPUT 150	2 INPUTS not visible	work set-point
	r1	r2	°C/°F(1)	not visible	150	top set-point
	r7	r8	°C/°F(1)	not visible	150	floor set-point floor set-point
5.2	Power	distrib				
٩RAM	MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	POWER DISTRIBUTED
	0	100	%	50	not visible	power distributed to the top (percentage of c1); see also c0 and c1
	0	100	%	50	not visible	power distributed to the floor (percentage of c1); see also c0 and c1
6.3	Config	guratio	n paramet	ers		
ARAM	MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	WORK SET-POINT
)	r 1	r2	°C/°F(1)	150	not visible	work set-point
۶S	0	999	°C/°F(1)	100	not visible	steam set-point
	r 1	r2	°C/°F (1)	not visible	150	top set-point
	r7	r8	°C/°F (1)	not visible	150	floor set-point
ARAM		MAX.	U.M.	1 INPUT	2 INPUTS	POWER DISTRIBUTED
51	0	100	%	50	not visible	power distributed to the top (percentage of c1); see also c0 and c1
2	0	100	%	50	not visible	power distributed to the floor (percentage of c1); see also c0 and c1
	MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	MEASUREMENT INPUTS
1	1	25/50	1.1	0	0	with 1 measurement input, chamber probe inset; with 2 measurement inputs, top probe offset
12)		125/50	°C/°F(1)	not visible	0	with 1 measurement input, steam probe inset; with 2 measurement inputs, floor probe offset
)	0	1		0	0	type of probe
2	0	1		0	0	1 = K
	0	1		0	0	temperature unit of measurement (2)
						0 = °C 1 = °F
	0	1		0	not visible	I = 'F enabling the steam probe
	ľ	[U	I TOL VISIDIE	1 = YES
5	0	(3)		0	0	quantity shown by the upper part of the display during the on state or during normal functioning
-	ľ	1,2,				0 = with 1 measurement input, chamber temperature; with 2 measurement inputs, top temperature
						1 = with 1 measurement input, work set-point; with 2 measurement inputs, top set-point
						2 = temperature of the floor
						3 = floor set-point
5	0	(4)		2	2	quantity shown by the lower part of the display during the on state or during normal functioning
-	Ĩ	(. /		_	_	0 = with 1 measurement input, chamber temperature; with 2 measurement inputs, top temperature
						1 = with 1 measurement input, work set-point; with 2 measurement inputs, top set-point
						2 = value of the cooking timer or its count if the timer is active
						3 = temperature of the floor
						4 = floor set-point
RAM	MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	MAIN REGULATOR
	1	99	°C/°F(1)	5	5	with 1 measurement input, work set-point differential; with 2 measurement inputs, top set-point differential
	0	r2	°C/°F(1)	50	50	with 1 measurement input, minimum work set-point, with 2 measurement inputs, top minimum set-point
	r 1	999	°C/°F(1)	350	350	with 1 measurement input, maximum work set-point; with 2 measurement inputs, top maximum set-point
	1	99	°C/°F(1)	not visible	5	floor set-point differential
,	0	r8	°C/°F(1)	not visible	50	minimum floor set-point
3	r7	999	°C/°F (1)	not visible	350	maximum floor set-point
2	0	1		0	0	restraint between the top output and the cooking timer
						$1 = \underline{YES}$ - the top output remains off if the cooking timer count is not in progress
4	0	1		0	0	restraint between the floor output and the cooking timer
						1 = YES - the floor output remains off if the cooking timer count is not in progress
ARAM	MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	STEAM INJECTION
	0	1		0	0	steam injection functioning mode
						$0 = \text{pressing the} \bigotimes_{v \in V} key causes the injection of steam for the time established with parameter t2 or for the entire duration that the key is pressed. T$
						parameter 1 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 a
		250				parameter t1 establishes switch-off duration)
	0	250	S	1	1	if t0 = 0, minimum time that passes between two successive injections
	1	250	de ///	1.0	1.0	if t0 = 1, injector switch-off duration
	l'	250	ds (6)	10	10	if t0 = 0, minimum injection duration if t0 = 1, injector switch on duration
	1	99	°C/°F (1)	5	not visible	if t0 = 1, injector switch-on duration
	0	99	°C/°F (1)	50	not visible	steam set-point differential temperature of the steam below which, once the steam set-point has been reached, the steam injection is no longer available (relative to the steam
	ľ	11		50	I TOL VISIDIE	set-point i.e. "steam set-point - t4") (5)
ARAM	MIN	MAX.	U.M.	1 INPUT	2 INPUTS	VARIOUS
(KAIVI)	0	2	U.M.	0	not visible	various restraint between the power distributed to the top and power distributed to the floor
	ľ	-	-			0 = no restraint
						1 = the modification of the power supplied to an output automatically causes the supply of the maximum power to the other
						2 = the modification of the power supplied to an output automatically causes are supply of the maximum power to the other such to guarantee that
						sum of the two percentages is always 100
	1	999	s	80	80	with 1 measurement input, cycle time for the top output and floor output switch-on, see also Po1 and Po2
						with 2 measurement inputs, cycle time for the top output and floor output switch-on, when economy function is in progress (7)
	0	3		1	not visible	event that causes the activation of the rapid heating function
						0 = function cannot be activated
						1 = press 🎮 for 1s (make sure that the instrument is in the on state, that no procedure is in progress and the economy function is not is progress
						2 = pass from stand-by state to on state
						3 = pres 1 and for 1s (make sure that the instrument is in the on state, that no procedure is in progress and the economy function is not is progress)
						pass from the stand-by state to the on state
;	0	99	°C/°F(1)	10	not visible	temperature of the chamber over which the rapid heating function is interrupted (relative to the work set-point i.e. "work set-point - c3")
	-1	120	s	15	15	duration of buzzer activation and of the acoustic output on conclusion of the cooking timer count; see also c9 (8) (9)
						-1= the buzzer and the acoustic output must be deactivated in manual mode by pressing a key
	0	60	min	20	20	time that passes between the activation of the airhole and the conclusion of the cooking timer count, see also c6
	0	60	min	20	20	duration of the activation of the airhole at conclusion of the cooking timer count, see also c5
	00:00	60:00	min:s	00:30	00:30	duration of the activation of the airhole in manual mode
	0	120	S	10	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
0	0	999	min	120	120	maximum duration of the economy function (10)
	MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	TEMPERATURE ALARMS
RAM			0.000.000	0	0	with 1 measurement input, temperature of the chamber above which the chamber temperature alarm is activated; with 2 measurement inputs, temperature alarm is a
RAM	0	999	°C/°F (1)	0	0	That i meddalenen inpat, temperatare of the enamber above timber temperatare damins destated, that 2 meddalenen inpats, tempe
		999	°C/°F (I)	0	0	ture of the top above which the top temperature alarm is activated; see also A3 (11)

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A3	0	2		0	0	with 1 measurement input, type of chamber temperature alarm delay; with 2 measurement inputs, type of top temperature alarm delay $0 = no$ alarm $1 = absolute (i.e. A1)$
						2 = with 1 measurement input, relative to the work set-point (i.e. "work set-point + A1"); with 2 measurement inputs, relative to the top set-point (i.e. "top set-point + A1")
A4	0	999	°C/°F(1)	not visible	0	action a choice which the floor temperature alarm is activated, see also A6 (11)
A5	0	240	min	not visible	0	Nor temperature alore metrice how temperature data in a delivate, see alor to [11]
A6	0	2 10		not visible	0	type of floor temperature alarm
		-			-	0 = no alarm
						1 = absolute (i.e. A4)
						2 = relative to the floor set-point (i.e. "floor set-point + A4")
PARAN	1. MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	DIGITAL INPUTS
i1	0	1		0	0	on/stand-by input polarity
						0 = live input active
						1 = non-live input active
i 5	0	6		0	0	effect caused by the activation of the multifunction input
						0 = no effect
						1 = <u>START/INTERRUPTION OF THE COOKING TIMER</u> - the activation of the input will cause the cooking timer to start and the successive activation will cause
						its interruption
						2 = <u>CHAMBER LIGHT SWITCH-ON/OFF</u> - the activation of the input will cause the chamber light to switch-on and the successive activation will cause its switch-off
						3 = 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)
						4 = <u>STEAM INJECTION</u> - 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) (12)
						• 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 (12)
						5 = DOOR MICRO SWITCH - the activation of the input causes the deactivation of the top output and the floor output, prevents steam injection, displays
						the flashing "id" code in the upper part of the display and activates the buzzer until the input is deactivated; see also i7
						6 = <u>START/STOP OF THE ECONOMY FUNCTION</u> - activation of the input causes the activation of the economy function and successive activation will cause
						interruption
i6	0	1		0	0	type of contact of the multifunction input
						0 = NO (input active with closed contact)
						1 = NC (input active with open contact)
i7	0	120	min	0	0	multifunction input alarm signal delay (only if i5 = 5)
PARAN	1 MIN.	MAX.	U.M.	1 INPUT	2 INPUTS	SERVAL NETWORK (MODBUS)
LA	1	247		247	247	instrument address
Lb	0	3		2	2	baud rate
						0 = 2.400 baud 1 = 4.800 baud
						1 = 4.800 baud 2 = 9.600 baud
						2 = 9.500 badd 3 = 19.200 badd
LP	0	2		2	2	parity
LF	0	L_		۷	<u> </u>	0 = none (no parity)
						1 = odd
						2 = even
(1)	the	l ait of pro-		l depends on par	amotor P2	

(2) set the parameters relative to the regulators appropriately after modification of parameter P2

(3) the value depends on the type of functioning (1 with 1 measurement input and 3 with 2 measurement inputs)

(4) the value depends on the type of functioning (2 with 1 measurement input and 4 with 2 measurement inputs)

(5) steam injection becomes available again when the temperature of the steam reaches the steam set-point again

ds = tenths of second

(6) (7) the top output and the floor output are switched-on alternately for half of the time established with parameter c1

(8) 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

(9) 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

(10) if the economy function is in progress, any instrument switch-off will cause interruption of the function. A power cut will not cause interruption of the function but the re-start of the time count established with parameter c10

the parameter differential is 10 °C/18 °F (11)

(12)

