
built-in clock
chamber probe or top and floor probes ( $/ / \mathrm{K}$ or Pt 1002 -wire)
multi-purpose inputs
multi-purpose in
alarm buzzer
TTL MODBUS slave po
toring system or for BMS
INTRABUS master/slave port (deck centralized management)
USB port (set up recipe book)
on-off/PI control
independent regulation of the power or the top and floor temperature.

| Models available |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Purchasing code | Power supply | Type of analogue inputs | Number of digital outputs | Type of digital outputs for top and floor |
| EV8314J9 | 115... 230 VAC | $\begin{aligned} & \text { for } J / K \text { thermo- } \\ & \text { couples or } \\ & \text { Pt } 1002 \text {-wire } \\ & \text { probes } \\ & \hline \end{aligned}$ | 4 | electromechanical relay |
| EV8314J4 | 24 VAC | for Pt 100 2-wire probes and J/K thermocouples | 4 | electromechanical relay |



INSTALLATION PRECAUTIONS
the thickness of the panel must be between 0.8 and $5.0 \mathrm{~mm}(1 / 32$ and $1 / 16 \mathrm{in})$ the maximum clamping torque applicable to the screwed-in brackets is 10 cNm ensure that the working conditions are within the limits stated in the TECHNICAL SPEC
places subject to direct suliont sources, equipment with a strong magnetic field, or shocks
in compliance with safety regulations, the device must be installed properly to ensure adequate protection from contact with electrical parts. All protective parts must be fixed in such a way as to need the aid of a tool to remove them.



$\qquad$

4.1 Switching the device on/ off

To switch the device on:

$$
\begin{aligned}
& \text { \| (I) | Touch the ON/STAND-BY key } \\
& \text { \| (1) } \mid \text { Touch the ON/STAND-BY key for } 3 \mathrm{~s}
\end{aligned}
$$

If the device is on and the operating er ( $\mathrm{P} 2=0$, default), the display will show
status device in the network for deck centralized management
(white $=0$ ok, red $=$ network error $/$ disconnection from network,
asterisk $=$ (white $=$ ook, red $=$ networker errror/disconneretion from nememerk,
communicating slaves $<$ number of slaves in the network)
power delivered to the top $\&$

If the chamber setpoint has been reached, the status of the device will show "READY", if not, it will show "PRE-HEATING".
If the device is on and the operating logic has independent regulation of the top and floor tem perature ( $\mathrm{P} 2=1$ ), the display will show:
$\begin{aligned} & \text { status device in the network for deck centralized management } \\ & \text { (white }=\text { ok, red }=\text { network error)disconnection from network, }\end{aligned}$
asterisk $=$ number of communicating slaves $<$ number of slaves in the

cooking timer duration
If the top and floor setpoints have been reached, the status of the device will show "READY", if not, it will show "PRE-HEATING".

If the device is switched off, the display will show the time. If the weekly programmed switchon function is activated, the display will also show the day and time of the next switch-on and If the statams of the device shows an alarm code, see the section ALARMS.
If
4.2 Starting up/ interrupting the cooking cycle

To start up a cooking cycle.
make sure that the device is switched on
make sure that the cooking timer is set
| | $\begin{aligned} & \text { Touch the START/STOP key: the cooking timer will start up and } \\ & \text { the status of the device will show "COOKI NG". When the timer } \\ & \text { stops, it will show "END". }\end{aligned}$
Then check that the remaining settings are appropriate: see the section CONFIGURA tion parameters
Disconnect the device from the mains.
Make the electrical connection as shown in the section ELECTRICAL CONNECTION without powering up the device.
For the connection in an RS-485 network connect the interface EVIF22TSX, to use the device with the EPOCA remote monitoring system, connect the EVIF25TWX module, to vant instruction sheets. If EVI F22TSX is used, set parameter bLE to $\mathbf{0}$.
Power up the device.
rrupt the cooking cycle:
$\| \circlearrowright \quad \mid$ Touch the START/STOP key for 1 s.
4.3 Setting the cooking timer


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| 4．4．1 Setting the chamber setpoint（if $\mathbf{P 2} \mathbf{= 0}$ ）Make sure that the device is switched on． |  |  |
| :---: | :---: | :---: |
|  |  |  |
| 1. | 円 $\triangle$ | Touch the INTERACTIVE 2 key：the display will show the value in yellow． |
| 2. | ，ヘヘ®＊ | Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value within the limits r 1 and r 2 （default＂ 0 ．．． 300＂）． |
| 3. | $\checkmark \circ$ | Touch the INTERACTIVE 3 key（or take no action for 15 s ）． |
| 4. | $\times \quad \circ$ | Touch the INTERACTIVE 4 key to exit the procedure beforehand （any changes made will not be saved）． |

4．4．2 Setting the top and floor setpoints（if P2＝1）
To set the floor sure that the

|  | make sure that the | switche |
| :---: | :---: | :---: |
| 1. | $0$ | Touch the INTERACTIVE 1 key：the display will show the value in yellow． |
| 2. |  | Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value within the limits r 1 and r 2 （default＂ 0 ．．． $300^{\prime \prime}$ ）． |
| 3. | $\checkmark \square$ | Touch the INTERACTIVE 3 key（or take no action for 15 s ）． |
| 4. | $\times$ 。 | Touch the INTERACTIVE 4 key to exit the procedure beforehand （any changes made will not be saved）． |

To set the floor setpoint：

device is switched on
Touch the INTERACTIVE 3 key：the display will show the value in

| Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within |
| :--- |
| yell | 15 s to set the value within the limits r 1 and r 2 （default＂ 0 ．．．

$300^{\prime \prime}$ ）．
Touch the INTERACTIVE 3 key（or take no action for 15 s ）．
Touch the INTERACTIVE 4 key to exit the procedure beforehand
（any changes made will not be saved）．
4．5 Setting the power delivered to the top and floor（if P2 $=\mathbf{0}$ ）
The power delivered means the switch－on time of the top and floor heaters，calculated as
percentage of the cycle time r ． percentage of the cycle time 88 ．
To set the power delivered to the
make sure that the device is switched on


| （The |
| :--- |
| Touch the INTERACTIVE 1 key：the display will show the value in |
| yellow． |
| $\begin{array}{l}\text { Touch the INTERACTIVE } 1 \text { key or the INTERACTIVE } 2 \text { key within }\end{array}$ |
| $\mathbf{7}$ It | 15 s to set the value．

Touch the INTERACTIVE 3 key（or take no action for 15 s ）． Touch the INTERACTIVE 4 key to exit the procedure beforehand （any changes made will not be saved）．
To set the power delivered to floor：


## device is switched on

yellow． Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within
yello 15 s to set the value． Touch the INTERACTIVE 3 key（or take no action for 15 s ）． Touch the INTERACTIVE 4 key to exit the procedure beforehand （any changes made will not be saved）．

1 ax $1 \mid$ Trowntwenexumatreor
Switching the chamber light on／off（if u3c．．．u6c＝3）
\｜§｜Touch the CHAMBER LIGHT key．
4．8 Switching the suction hood on／off（if u3c．．． $\mathbf{u 6 c}=7$ ）
\｜rux｜$\quad$ Touch the AUXILIARY key．
The hood remains on at maximum for the time u ．
If $\mathrm{u} 2=0$ ，touch the SUCTION HOOD again to switc
If $\mathrm{u} 2=0$ ，touch the SUCTION HOOD again to switch the hood off
Keypad lock（cleaning the device）
$|\ominus \quad| \quad \begin{aligned} & \text { Touch the ENERGY SAVING key for } 3 \text { s：the display will show } \\ & \text {＂Cleaning controller＂and the remaining count of the time }\end{aligned}$
4.10 Silencing the buzzer

If u3c．．．u6c $=6$ ，the buzzer is silenced．

## $\begin{array}{ll}5 & \text { ADDITI ONAL FUNCTI ONS }\end{array}$

make sure that the device is switched on
make sure that parameter P2 is set to 0 （default）
make sure that a cooking cycle is not active
$\stackrel{\rightharpoonup}{0} \square$
When overheating is activated，the top and floor heat 4 key for 3 ，
they reach the threshold c 7 ．
5．2 Activating／deactivating the energy s
make sure that the device is switched on
make sure that the device is switched on
make sure that the overheating function is not active
If the operating logic has independent regulation of the top and floor power（ $\mathrm{P} 2=0$ ，default） when the energy saving function is active，the switch－on time of the top and floor heaters is re duced by the percentage c9．
when the energy saving function is active，the switch－on time of the top and floor heaters is calculated as $50 \%$ of the cycle time r8．

## 5．3 Setting the language



Touch the INT
figuration＂menu．
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－
lect＂Language＂．
Touch the INTERACTIVE 3 key：the display will show the＂Lan－
guage＂menu．
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect a language．
Touch the interactive 3 key．
Touch the INTERACTIVE 4 key to exit the procedure（or take no action for 60 s ）．

### 5.4 Display of device status

## Make sure that the device is switched on


Touch the CHAMBER LIGHT key for 3 s：the display will show the
＂Expert＂menu． lect＂I nternal values＂or＂Alarms＂．


```
6.2 Deck centralized management
```

6．2 Deck ce
For all devices： make sure the
CONNECTION
CONNECTION
set an univocal INTRABUS address（parameter MS1）；it is possible to connect 1 master
device（MS1＝1）and up to 5 slave devices（MS1 $=2 \ldots 6$ ）
enable the deck centralized management（parameter MS2 $=1$ ）
activate the deck centralized mnagement after power－on（parameter MS3 $=1$ ） set the power absorbed from top（parameter Pt）
set the power absorbed from floor（parameter Pf）
set the power absorbed by the chamber light（parameter Pbl）
set the power absorbed by the auxiliary output（parameter Pax）．
master device：
set the number of devices in the network（parameter MS6）
set the available power in the electric system（parameter Pow）
set the power absorbed from the suction hood（parameter Ph）
set the interval for interval for power distribution recalculation（parameter MS5）
set the difference between the number of slave in the network and the number of those communicating（parameter MS7）such as to provoke the activation of protections in the
master（loads switch off）． master（loads switch off）．

## slave devices：

set the consecutive time without communication without communication with the mas－
ter such as to provoke the independent regulation（parameter MS4）．

## $\| \ominus \quad \mid \quad$ Touch the ENERGY SAVING key．


in the program，touch the START／STOP key．
Each program can consist of one or two cooking phases．
Each program can consist
To add the second phase：


To configure a phase：
make sure that the device is switched on
$\therefore \quad$ — $\quad \begin{aligned} & \text { Touch the CHAMBER LIGHT key for } 3 \text { s：the display will show the } \\ & \text {＂Expert＂menu．}\end{aligned}$ lect a phase．
lect a phase．
Configure the device as shown in the previous paragraphs．
To delete the second phase：
make sure that the device is swited

| $\bigcirc$ | Touch the CHAMBER LIGHT key for 3 s ：the display will show the ＂Expert＂menu． |
| :---: | :---: |
|  | Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect＂Delete phase＂． |
| $\checkmark \circ$ | Touch the INTERACTIVE 3 key． |
| $\checkmark \bigcirc$ | Touch the INTERACTIVE 3 key again． |
| $\times \circ$ | Touch the INTERACTIVE 4 key to exit the procedure（or take no action for 60 s ）． |

## 7．2 Storing a program



Wn in the previous paragraphs．
Touch the PROGRAMS key for 3 s ：the display will show the
＂Pre ＂Programs＂menu，＂Programs＂appears in yellow． Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－
lect a position，any previously stored programs will be over－ lect a
written． rouch the INTERACTIVE 3 key：＂Programs＂will become white． Touch the INTERACTIVE 4 key to exit the procedure（or take no action for 60 s ）．

make sure that the device is switched on．
1.
GRAMS＂menu．
Touch the INTE
lect a program．
Touch the INTERACTIVE 3 key：the program will start up，the Touch the INTERACTIVE 3 key：the program will start up，the
status of the device will show the name of the program．
． Touch the INTER

## 7．4 Deleting a program



> switched on. Touch the
grams＂menu．
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se
grams" menc lect a program．
Touch the INTERACTIVE 4 key for 3 s ．
Touch the INTERACTIVE 3 key
Touch the INTERACTIVE 4 key to exit the procedure（or take no

| 8 | WEEKLY PROGRAMMED SWITCH－ON |
| :---: | :--- |
| 8.1 | Initial information |

It is possible to save up to 9 weekly programmed switch－ons．A program will start up when the
device is switched on．To start up the cooking cycle with the settings stored in the program， touch the START／STOP key．

## 8．2 Storing a switch－on

make sure that parameter C5 is set to 1 （default）
make sure that at least one program has been stored
$\#$
Touch the INTERACTIVE 3 key

Touch the INTERACTIV＂
lect＂Add switch－on＂
Touch the INTERACTIVE 3 key．
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－
lect＂Day＂．
Touch the INTERACTIVE 3 key：the display will show the day in
yellow． 15 s to set the value．
Touch the INTERACTIVE 3 key（or take no action for 15 s ）．
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－
lect＂Time＂
lect＂Time＂．
信
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value．
yellow． Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value．
Touch the INTERACTIVE 3 key（or take no action for 15 s ）．
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－
lect＂Program＂．
Touch the INTERACTIVE 3 key：the display will show the program
in yellow．
Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value．
Touch the INTERACTIVE 3 key（or take no action for 15 s ）． Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect＂Save＂．

Touch the INTERACTIVE 4 key to exit the procedure（or take no action for 60 s ）．

## Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect a switch－on

lect a switch－on．
Touch the START／STOP key：the display will show the day and time of the next switch－on and the program that will start． Touch the ON／STAND－BY key to switch the device off without ac－ tivating the switch－ons．
8．4 Changing a switch－on


8．5 Deleting a switch－on

| 1. | 呦 | Touch the INTERACTIVE 3 key． |
| :---: | :---: | :---: |
| 2. | $\checkmark \nabla^{\wedge}$ | Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect＂Switch－ons＂． |
| 3. | $\square$ | Touch the INTERACTIVE 3 key：the display will show the switch－ ons in yellow． |
| 4. | $\checkmark \wedge \square^{\circ}$ | Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect a switch－on． |
| 5. | $\bigcirc$ | Touch the INTERACTIVE 3 key． |
| 6. | $\sqrt{\wedge} \times{ }_{\square}^{\circ}$ | Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect＂Delete switch－on＂． |
| 7. | $\bigcirc$ | Touch the INTERACTIVE 3 key． |
| 8. | $\bigcirc$ | Touch the INTERACTIVE 3 key again． |
| 9. | $\bigcirc$ | Touch the INTERACTIVE 4 key to exit the procedure（or take no action for 60 s ）． |

 ment is ${ }^{\circ} \mathrm{C}$ or ${ }^{\circ} \mathrm{F}$ to be changed automatically．


## switched off．

figuration＂menu Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ Touch the INTERACTIVE 3 key：the display will show＂Password＂ in yellow．

Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within | 15 s to set＂ $\mathbf{- 1 9}$＂． |
| :--- |
| Touch the INTERACTIVE 3 key：the display will show the＂Ser－ | vice＂menu

Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to se－ lect a parameter．
Touch the INTERACTIVE 3 key：the display will show the parame－ ter in yellow． 15 s to set the value．
Touch the INTERACTIVE 3 key（or take no action for 15 s ）．
Touch the INTERACTIVE 4 key to exit the procedure（or take no
action for 60 s ）．
9．2 Setting the time and day of the week

2－Do not disconnect the device fro
－If the device communicates with the EVconnect app，the time and day of the week will be automatically set by the smartphone or tablet．


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 | Touch th |
| :--- |
| yellow. | yellow.

Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within 15 s to set the value. Touch the INTERACTIVE 3 key: the display will show the minutes in yellow. 15 s to set the value.
Touch the INTERACTIVE 3 key (or take no action for 15 s ). Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key to select "Day".

LRACTIVE 3 key: the display will show the day in Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within Touch the INTERACTIVE 3 key (or take no action for 15 s ). Touch the INTERACTIVE 4 key to exit the procedure (or take no
action for 60 s ). action for 60 s ).

### 9.3 Restoring factory settings (default)

 N.B.Check that
RAMETERS.

 lect "Service".
in yellow. Touch the INTERACTIVE 1 key or the INTERACTIVE 2 key within
15 s to set "149".
Touch Touch the I
vice" menu.
Touch the INTERACTI
lect "Restore defaut Touch
tick. Touch the INTERACTIVE 4 key to exit the procedure beforehand Touch the INTERACTIVE 4 key to
(the reset will not be carried out).

| $\bigcirc$ | N. | PAR. | DEF. | analogue inputs | MIN... MAX. |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | P0 | 0 | type of probe | $\begin{array}{\|lll} \hline 0 & =J & 1=K \\ 2 & =\text { Pt } & 100 \\ 2 \text { 2-wire } \end{array}$ |
|  | 2 | P1 | 0 | unit of measurement | $0={ }^{\circ} \mathrm{C} \quad 1={ }^{\circ} \mathrm{F}$ |
|  | 3 | P2 | 0 | operating logic | $0=$ independent regulation of the top and floor power <br> 1 =independent regulation of the top and floor temperature |
|  | 4 | CA1 | 0 | chamber probe offset | $-25 . . .25^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ <br> if P2 $=1$, top probe offset |
|  | 5 | CA2 | 0 | floor probe offset | $-25 . . .25^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ |
| dr | N. | PAR. | DEF. | REGULATION | MIN... MAX. |
|  | 6 | ro | 5 | setpoint chamber differential | $1 \ldots 90^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ <br> if $P 2=1$, top setpoint and floor setpoint differential effective if $\mathrm{r} 10=0$ |
|  | 7 | r1 | 0 | minimum chamber setpoint | $0^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F} \ldots \mathrm{r} 2$ <br> if P2 $=1$, minimum top set- <br> point |
|  | 8 | r2 | 300 | maximum chamber setpoint | r1... $999^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ <br> if P2 $=1$, maximum top setpoint |
|  | 9 | r3 | 130 | default chamber setpoint when configuring a phase | r1... r2 <br> if P2 $=1$, top setpoint |
|  | 10 | r4 | 0 | minimum floor setpoint | $0^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$... r r |
|  | 11 | r5 | 300 | maximum floor setpoint | r4... $999{ }^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ |
|  | 12 | r6 | 130 | default floor setpoint when configuring a phase | r4... r5 |
|  | 13 | r7 | 0 | constraint between top and floor powers | 0 = disabled <br> 1 = changing a power causes the other to be changed automatically so that the sum of the two is always 100 |
|  | 14 | r8 | 80 | cycle time for top and floor heaters on | 1... 999 s <br> if P2 $=1$, cycle time for top and floors heaters on in energy saving mode if $\mathrm{P} 2=1$ and $\mathrm{r} 10>0$, cycle time PI |
|  | 15 | r9 | 0 | minimum time top and floor heaters on and off | 0... 240 s <br> we recommend $>10 \mathrm{~s}$ |
|  | 16 | r10 | 50 | proportional band | $0 . . .99^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ $0=$ on-off control effective only if $\mathrm{P} 2=1$ |
|  | 17 | r11 | 80 | integral action time | $\begin{array}{\|l\|} \hline 0 \ldots 999 \mathrm{~s} \\ 0=P \text { control } \\ \text { effective only if P2 = } 1 \\ \hline \end{array}$ |
| \% | N. | PAR. | DEF. | GENERAL SETTINGS | MIN... MAX. |
|  | 18 | co | 15 | time buzzer on from end of cooking cycle | $\begin{array}{\|l\|} \hline-1 \ldots 120 \mathrm{~s} \\ -1=\text { until silencing } \\ \hline \end{array}$ |
|  | 19 | c1 | 0 | activate buzzer for 1 s at end of the cooking phase | 0 = no $\quad 1$ = yes |
|  | 20 | c2 | 60 | keyboard inactivity time to switch off the device from weekly programmed switch-on activation | $\begin{aligned} & 0 \ldots 240 \mathrm{~min} \\ & 0=\text { disabled } \end{aligned}$ |
|  | 21 | c3 | 10 | high chamber temperature threshold for locked display (relative to chamber setpoint) | $\begin{aligned} & \text { 0... } 99^{\circ} \mathrm{C} / /^{\circ} \mathrm{F} \\ & \text { chamber setpoint }+\mathrm{cz} \\ & 0=\text { disabled } \end{aligned}$ |
|  | 22 | c4 | 10 | low chamber temperature threshold for locked display (relative to chamber setpoint) | $\begin{aligned} & \text { 0... } 99^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F} \\ & \text { chamber setpoint - } \mathrm{ct} \\ & 0=\text { disabled } \\ & \hline \end{aligned}$ |
|  | 23 | c5 | 1 | enable weekly programmed switch-on | $0=$ no $\quad 1$ = yes |
|  | 24 | c6 | 0 | activate overheating at power-on | $\begin{array}{\|l\|l\|} \hline 0=\text { no } \quad 1=y e s \\ \text { effective only if } P 2=0 \\ \hline \end{array}$ |
|  | 25 | c7 | 150 | chamber temperature threshold for end of overheating | $0 . . .999^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ <br> $0=$ on reaching the working setpoint effective only if P2 = 0 |
|  | 26 | c8 | 60 | maximum duration of energy saving | $0 . . .240 \mathrm{~min}$ <br> $0=$ until manual deactivation <br> not effective if activated by digital input |
|  | 27 | c9 | 50 | percentage times top and floor heaters on in energy saving mode | 0... 100 \% effective only if P2 $=0$ |
|  | 28 | c10 | 10 | duration of controller cleaning | 1... 120 s |
|  | 29 | c11 | 0 | setting used at end of the cooking phase | $\begin{array}{\|l} \hline 0=\text { setting phase } 1 \\ 1=\text { last settings } \\ \hline \end{array}$ |
|  | 30 | c12 | 0 | deactivate the energy saving switching the device off | 0 = yes 1 = no |

$\bigcirc$

$\frac{N}{60}$ | 66 | PA1 | $\mathbf{4 2 6}$ |
| :--- | :--- | :--- |
| 67 | PA2 | $\mathbf{8 2 4}$ | | level 1 passw |
| :--- | :--- |
| level 2 passw |


|  | N. | PAR. | DEF. | ALARMS | MIN... MAX. |
| :---: | :---: | :---: | :---: | :--- | :--- |
| 31 | A0 | $\mathbf{1 0}$ | temperature alarm switch off dif- <br> ferential | $1 \ldots 99^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ |  |
| 32 | A1 | $\mathbf{0}$ | high temperature alarm thresh- <br> old | $0 \ldots 500^{\circ} \mathrm{C} /{ }^{\circ} \mathrm{F}$ |  |
| 33 | A2 | $\mathbf{0}$ | high temperature alarm delay | $0 \ldots 240 \mathrm{~min}$ |  |



| Purpose of the control device: |  |  | function controller. |  |
| :---: | :---: | :---: | :---: | :---: |
| Construction of the control device: |  |  | built-in electronic device. |  |
| Housing: |  |  | black, self-extinguishing. |  |
| Category of heat and fire resistance: |  |  | D. |  |
| Measurements: |  |  | ```\[ 76.4 \times 148.4 \times 77.0 \mathrm{~mm}(3 \times 513 / 16 \times 3 \] in).``` |  |
| Mounting methods for the control device: |  |  | to be fitted to a panel, screwed-in brackets provided. |  |
| Degree of protection provided by the covering: |  |  | IP65 (front). |  |
| Connection method: |  |  |  |  |
| plug-in screw terminal blocks for wires up to $2.5 \mathrm{~mm}^{2}$ |  | Pico-Blade connector |  | female Micro USB connector. |
| Maximum permitted length for connection cables: |  |  |  |  |
| power supply: 10 m ( 32.8 ft ) |  |  | analogue inputs: $10 \mathrm{~m}(32.8 \mathrm{ft})$ |  |
| digital inputs: $10 \mathrm{~m}(32.8 \mathrm{ft})$ |  |  | digital outputs: $10 \mathrm{~m}(32.8 \mathrm{ft})$ |  |
| Operating temperature: |  |  | from 0 to $60^{\circ} \mathrm{C}$ (from 32 to $140^{\circ} \mathrm{F}$ ). |  |
| Storage temperature: |  |  | from-25 to $70^{\circ} \mathrm{C}$ (from-13 to $158{ }^{\circ} \mathrm{F}$ ). |  |
| Operating humidity: |  |  | relative humidity without condensate from 10 to $90 \%$. |  |
| Pollution status of the control device: |  |  | 3. |  |
| Compliance: |  |  |  |  |
| RoHS 2011/65/EC |  | WEEE 2012/19/EU |  | REACH (EC) Regulation N. 1907/2006 |
| EMC 2014/30/EU |  |  | LVD 2014/35/EU. |  |
| Power supply: |  |  | $115 . . .230 \mathrm{VAC}(+10 \%-15 \%), 50 / 60 \mathrm{~Hz}( \pm 3$ Hz), max. in EV8314J9 |  |
|  |  |  | $24 \mathrm{VAC}(+10 \%-15 \%), 50 / 60 \mathrm{~Hz}( \pm 3 \mathrm{~Hz})$, max. in EV8314J4 |  |
| Earthing methods for the control device: |  |  | none. |  |
| Rated impulse-withstand voltage: |  |  | 2.5 KV |  |
| Over-voltage category: |  |  | II. |  |
| Software class and structure: |  |  | A. |  |
| Clock: |  |  | built-in secondary lithium battery. |  |
| Clock drift: |  |  | $\leq 60 \mathrm{~s} /$ month at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$. |  |
| Clock battery autonomy in the absence of a power supply: |  |  | $>24 \mathrm{~h}$ at $25^{\circ} \mathrm{C}\left(77^{\circ} \mathrm{F}\right)$. |  |
| Clock battery charging time: |  |  | 24 h (the battery is charged by the power supply of the device). |  |
| Analogue inputs: |  |  | 2 for J/K thermocouples or Pt 100 2-wire probes (chamber probe or top and floor probes). |  |
| J thermocouples: | Measurement field: |  | from 0 to $700^{\circ} \mathrm{C}$ (from 32 to $999{ }^{\circ} \mathrm{F}$ ). |  |
|  | Resolution: |  | $1^{\circ} \mathrm{C}\left(1^{\circ} \mathrm{F}\right)$. |  |
| K thermocouples: | Measurement field: |  | from 0 to $999{ }^{\circ} \mathrm{C}$ (from 32 to $999{ }^{\circ} \mathrm{F}$ ). |  |
|  | Resolution: |  | $1^{\circ} \mathrm{C}\left(1^{\circ} \mathrm{F}\right)$. |  |
| Pt 100 probes: | Measurement field: |  | from 0 to $650^{\circ} \mathrm{C}$ (from 32 to $999{ }^{\circ} \mathrm{F}$ ). |  |
|  | Resolution: |  | $1^{\circ} \mathrm{C}\left(1^{\circ} \mathrm{F}\right)$. |  |
| Digital inputs: |  | 1 dry contact (multi-purpose 1 and multi-purpose 2). |  |  |
| Dry contact: |  | Contact type: |  | $3.3 \mathrm{~V}, 1 \mathrm{~mA}$ |
|  |  | Protection: |  | none. |
| Digital outputs: |  | 4 with electro-mechanical relay (K3...K6 relays). |  |  |
| K3... 66 relay : |  |  | SPST, 8 A res. @ $250 \mathrm{VAC}$. |  |
| Type 1 or Type 2 actions: |  |  | Type 1. |  |
| Additional features of Type 1 or Type 2 ac tions: |  |  | c. |  |
| Displays: |  |  | 2.8 inch TFT colour graphic display. |  |
| Alarm buzzer: |  |  | built-in. |  |
| Built-in sensors: |  |  | 1 (operating temperature). |  |
| Communications ports: |  |  |  |  |
| 1 TTL MODBUS programming ke nect app, EP monitoring syste | slave port for y, for EVconoCA remote or for BMS | 1 INTRABUS master/slave port (deck centralized management) |  | 1 USB port (set up recipe book). |

## *

N.B.
The device must be disposed of according to local regulations governing the collection fectrical and electronic equipment.

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vice.
$\qquad$ changes, at any time without prejudice to the essential functional and safety features of the equipment.

EVCO S.p.A.
Via Feltre 81, 32036 Sedico (BL) ITALY
Tel. 0437/8422 | Fax 0437/83648

