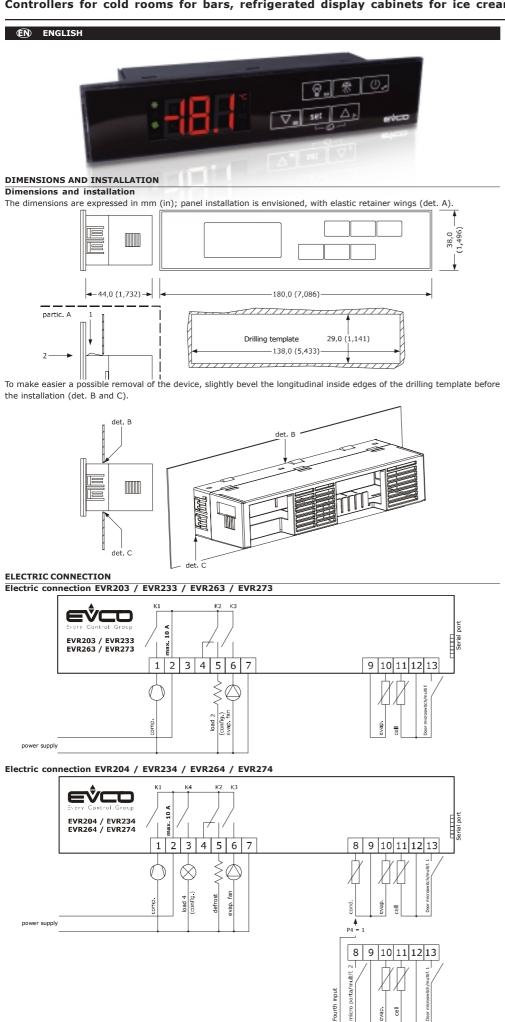
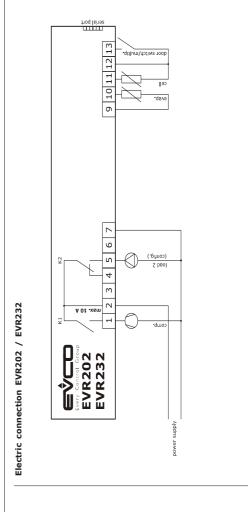
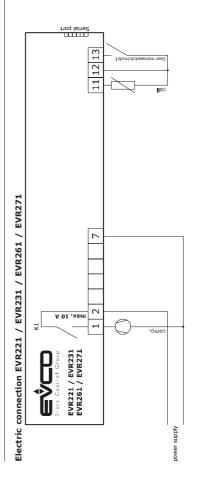
Controllers for cold rooms for bars, refrigerated display cabinets for ice cream/confectionery and small wine cellars







Read this document thoroughly before installation and before use of the device and follow all recommendations; keep this document with the device for future consultation. Only use the device in the way described in this document; do not use the same as a safety device.



The device must be disposed of in compliance with local Standards regarding the collection of electric and electronic equipment.

DIMENSIONS AND INSTALLATION

Installation warnings

- the thickness of the panel must be between 0.8 and 2.0 mm (0.031 and 0.078 in)
- make sure that the device work conditions (temperature of use, humidity, etc.) lie within the limits indicated; see chapter 12
- do not install the device near to any heat sources (heating elements, hot air ducts etc.), equipment containing powerful magnets (large diffusers, etc.), areas affected by direct sunlight, rain, humidity, excessive dust, mechanical vibrations or shocks.
- in compliance with Safety Standards, the device must be installed correctly and in a way to protect against any contact with electric parts; all parts that ensure protection must be fixed in a way that they cannot be removed without the use of tools.

ELECTRIC CONNECTION

Warnings for the electric connection

- do not use electric or pneumatic screwdrivers on the device terminal board
- if the device has been taken from a cold to hot place, humidity could condense inside; wait about 1 hour before powering it
- make sure that the power supply voltage, the frequency and the operational electric power of the device, correspond with those of the local power supply; see chapter 12
- disconnect the device power supply before proceeding with any type of maintenance
- position the power cables as far away as possible from the signal cables
- for repairs and information regarding the device, contact the EVCO sales network.

USER INTERFACE

3.1 Preliminary notes

Operating Statuses:

- "on" state (the device is powered and is on: the regulators can be switched on)
- "stand-by" status (the device is powered but is switched off via software: the regulators are switched off; the possibility to manually switch on/switch off the cell light or auxiliary output depends on parameter u2)
- the "off" status (the device is not powered).

Hereafter, with the word "start-up" means the passage from "stand-by" status to "on" status; the word "shutdown" means the passage from "on" status to "stand-by" status. When the power is switched back on, the device displays the

status that it was in at the time it was disconnected. Device switch-on/off in manual mode Operating Statuses:

- Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the \bigcirc key down for 2 s: the \bigcirc LED will switch off/on.

Using the digital inputs it is also possible to remotely switch on/off the device.

The display 3.3

If the device is switched on, during normal operation, the display will show the cell temperature, except during defrosting, when the device will show the temperature established with parameter d6.

If the device is switched off, the display will be switched off. $% \label{eq:control_eq}$

Display of the evaporator temperature (not available in EVR221, EVR231, EVR261 and EVR271 models)

- Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the $\[\nabla_{\blacksquare} \]$ key down for 1 s: the display will show the first label available.
- Press and release the \triangle key or the ∇ key to select "Pb2".
- 4. Press and release the set key.
- To exit the procedure:
- Press and release the set key or do not operate for
- 6.1 Press and release the $\triangle_{\blacktriangleright}$ or down $\overline{\triangledown}_{\blacksquare}$ key until the display shows the cell temperature or do not operate for 60 sec.

Alternatively:

6.2 Press and release the \bigcirc key.

If the evaporator probe is absent (parameter P3 = 0), the label "Pb2" will not be displayed.

Condenser temperature display (in EVR204, EVR234, EVR264 and EVR274 models only)

- Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the $\overline{\nabla_{lacktlet}}$ key down for 1 s: the display will show the first label available.
- Press and release the $\boxed{\vartriangle}$ key or the $\boxed{\triangledown}$ key to select "Pb3".
- Press and release the set key.

To exit the procedure:

- Press and release the $\ensuremath{\text{set}}$ key or do not operate for
- 6.1 Press and release the \triangle or down $\boxed{\triangledown}$ key until the display shows the cell temperature or do not operate for 60 sec.

Alternatively:

6.2 Press and release the _____ key.

If the fourth input function is that of the digital input (parameter P4 = 0), the label "Pb3" will not be displayed.

Mains voltage display (in EVR263, EVR273, EVR264 and EVR274 models only)

- Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the $\sqrt{\ }$ key down for 1 s: the display will show the first label available.
- Press and release the $\boxed{\square}$ key or the $\boxed{\triangledown}$ key to select "Ui".
- Press and release the $\[\]$ key.

To exit the procedure:

- Press and release the set key or do not operate for
- 6.1 Press and release the \triangle or down $\boxed{\triangledown}$ key until the display shows the cell temperature or do not operate

Alternatively:

6.2 Press and release the \bigcirc key.

Activation/deactivation of "overcooling" function

- Make sure that the keyboard is not locked and that no other operation is in progress, that defrosting and/or dripping is not in progress and that the evaporator fan is off.
- Hold the $\triangle_{\mathbf{k}}$ key down for 4 s: the Overcooling LED will light up.

During the "overcooling" function the working set-point is reduced by the temperature established with parameter r5: the operation lasts for the amount of time established with

During "overcooling" defrosting is never activated; if the defrosting interval expires when the function is in progress. defrosting will be activated at the end of the function.

Defrosting activation in manual mode

- 1. Make sure that the keyboard is not locked and that no other operation is in progress; ensure that the "overcooling" function is not in progress
- 2. Hold the 💮 key down for 4 s.

If the evaporator probe function is that of the defrosting probe (parameter P3=1) and upon activation of defrosting, the temperature of the evaporator is higher than that established with parameter d2, the defrosting function will not be activated.

3.9 Switch-on/off of the cell light in manual mode (not available in EVR221, EVR231, EVR261 and EVR271 models and only if parameter u0/u1 is set at 0)

- Make sure no procedures are in progress
- Press and release the $\overline{\mbox{\ensuremath{\omega}}}_{\mbox{\ensuremath}\ensuremath{\ensuremath{\mbox{\ensuremath}\ensuremath$ switch on/off.

Using the door digital inputs it is also possible to switch on/ off the cell light by remote; see also parameter u2.

Switch-on of demister resistors (only in EVR202, EVR232, EVR204, EVR234, EVR264 and EVR274 models and only if parameter u0/u1 is set at 1)

- 1. Ensure that the device is switched on and that no other procedure is in progress.
- Hold the was key down for 2 s: the "AUX" LED will light up and the resistors will be switched on, both for the amount of time established with parameter u6.

Manually switching off the demisting resistors is not permitted (that is, before the time established with parameter u6 expires).

Switch-on/off of auxiliary output in manual 3.11 mode (only in EVR202, EVR232, EVR204, EVR234, EVR264 and EVR274 models and only if parameter u0/u1 is set at 2)

1. Make sure that the keyboard is not locked and that no procedure is in progress.

2. Press and release the $_{\fbox{\scriptsize \begin{tabular}{c} \end{tabular}}}$ key: the "AUX" LED will switch on/off.

Using the digital inputs it is also possible to remotely switch on/off the auxiliary output.

3.12 Locking/unlocking the keyboard

To lock the keyboard:

- 1. Make sure no procedures are in progress
- Hold the $\boxed{\triangledown}$ key and the $\boxed{\circlearrowleft}$ key down for 1 s: the display will show "Loc".

If the keyboard is locked, the following are not permitted:

- device switch-on/off in manual mode
- display of evaporator temperature (via the procedure explained in paragraph 3.4)
- display of the condenser temperature (via the procedure indicated in paragraph 3.5)
- display the mains voltage
- activation/deactivation of "overcooling" function
- manual activation of defrosting
- manual switch on/off of the auxiliary output
- activation of operation for low of high percentage of relative humidity and learning the kind of operation
- see information regarding the HACCP alarms
- cancellation of HACCP alarm list
- display of compressor operation hours
- cancellation of compressor operation hours
- changing the working set-point (with the procedure described in 8.1).

The operations cause the display of the label " \mathbf{Loc} " per 1 sec.

To unlock the keyboard:

1. Hold the $\boxed{\ \ }$ key and thee $\boxed{\ \ }$ key down for 1 s: the display will show the message "UnL" for 1 sec.

3.13 Silencing the buzzer

To lock the keyboard:

- $1. \quad \hbox{Make sure no procedures are in progress} \\$
- Press a key (the first pressing of the key will not cause the effect associated with that key).

If parameter u0/u1 is set at 3 (i.e. the utility managed by the fourth output is the alarm output) and parameter ${\bf u4}$ is set at 1, pressing the key will also cause the deactivation of the output.

If parameter u9 is set to 0, the buzzer will not be activated.

OPERATION DUE TO LOW OR HIGH PERCENTAGE OF RELATIVE HUMIDITY (NOT **AVAILABLE IN EVR221, EVR231, EVR261 AND EVR271 MODELS AND ONLY IF PARAMETER** FO IS SET AT 5)

Preliminary notes

During operation for low percentage of relative humidity, the evaporator ventilator will be switched on if the compressor is switched off (parameter F4 determines the amount of time it is switched off while parameter F5 determines the amount of time it is switched on).

During operation for a high percentage of relative humidity the evaporator fan is always on.

Activation of operation for low or high percentage relative humidity in manual mode.

- Make sure that the keyboard is not locked and that no procedure is in progress.
- 2. Hold the set key and thee \(\begin{array}{c}\) key down for 4 s: the display will show "\(r\)hL" (operation for low percentage of relative humidity) or "**rhH**" (operation for high percentage of relative humidity) for 10 sec.

To restore the normal display before the operation is complete:

3. Press a key.

Activation of the operation for a low or high percentage of relative humidity can be done using parameter F6.

If the parameter F0 is not set at 5, pressing the and keys will cause the display of the "- - -" indication for 1 s.

4.3 Learning the type of operation in progress

- 1. Make sure no procedures are in progress
- Press and release the key and the.. key: the display will show $\mathbf{``rhL''}$ (operation for low percentage of relative humidity) or "rhH" (operation for high percentage of relative humidity) for 10 sec.

To restore the normal display before the operation is

complete: Press a key.

If parameter F0 is not set at 5, pressing the set and \triangle , keys will cause:

- the display of the message "- - " for 1 sec if the keyboard is not locked
- display of the label "Loc" for 1 sec if the keyboard is

ENERGY SAVING

5.1 Preliminary notes

Once the time you have set with parameter i10 has passed, without activations of the door microswitch input (after the cell temperature has reached the work set-point) the "energy saving" function is activated (until the input is activated again).

During function "Energy Saving" the working set-point is increased of the temperature you have set with parameter r4 and the evaporator fan is turned on cyclically, on condition that parameter F0 has value 1 or 2 (parameter F13 sets the time the fan remains turned off and parameter F14 the time it remains turned on).

It is also possible to activate the "energy saving" function in remote mode through the digital inputs (with effect only on

"HACCP" FUNCTION

Preliminary notes

The device can memorise the following HACCP alarms:

- minimum temperature alarm (code "AL")
- maximum temperature alarm (code "AH")
- door microswitch input alarm (code "id")

The device supplies the following information for every alarm:

the critical value

the duration of the alarm (from 1 min to 99 hours and 59 min, partial if the alarm is in progress).

Code	Critical value
AL	the minimum temperature of the cell during any
	alarm of this type
AH	the maximum temperature of the cell during any
	alarm of this type
id	the maximum cell temperature during any alarm
	of this type; see also parameter i4

The device stored the minimum temperature alarm on condition that the temperature associated to the alarm is that of the cell (parameter A0 = 0).

if the device is switched off, no alarms will be stored.

The device updates the information regarding the alarms provided the critical value of the new alarm is more critical than that stored or provided the information has already been displayed.

The "HACCP" LED provides information regarding the storage status of the alarms; see paragraph 9.1.

Display of HACCP alarm information

To begin the procedure

- 1. Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the $\boxed{\ \ \ }$ key down for 1 s: the display will show the first label available.
- Press and release the $\boxed{\ \ \, }$ key or the $\boxed{\ \ \, }$ key to select

If the device does not have any alarms stored, the label "LS" will not be displayed.

To select an alarm:

5. Press and release the $\triangle_{\blacktriangleright}$ or $\boxed{\triangledown_{\blacksquare}}$ key (to select, for example, "AH").

To see information regarding the alarm:

6. Press and release the set key: the HACCP LED will stop flashing and remain on permanently and the display will show, for example, the following information in succession (for example):

Inform. Part

8.0	the critical value is 8.0 °C/8 °F
dur	the display is about to show the alarm duration
h01	the alarm lasted for 1 hour (other data continues)
n15	the alarm lasted 1 hour and 15 min
AH	the alarm selected

the displays each piece of information for $1\ \mathrm{s}.$

To exit the information sequence:

Press and release the 🕠 key: the display will show the alarm selected (in the example "AH").

To exit the procedure:

- 8. Exit the information sequence.
- 9.1 Press and release the \triangle_{\bullet} or down $\overline{\nabla_{\bullet}}$ key until the display shows the cell temperature or do not operate for 60 sec.

Alternatively:

9.2 Press and release the 0, key.

Cancelling the HACCP alarm list

- 1. Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the $\boxed{}$ key down for 1 s: the display will show the first label available.
- Press and release the $\triangle_{\blacktriangleright}$ key or the $\overline{\triangledown_{\bullet}}$ key to select "rLS".
- 4. Press and release the set key.

- 5. Press and release the \triangle key or the \triangledown key within 15 s to set "149".
- Press and release the $_{\tt sst}$ key or do not operate for 15 sec: the display will show a flashing "- - -" for 4 sec and the "HACCP" LED switches off, after which the device will exit the procedure.

If the device does not have any alarms stored, the label "rLS" will not be displayed.

COMPRESSOR OPERATING HOURS COUNT

7.1 Preliminary notes

The device can memorise up to 9.990 compressor operating

The parameter C10 establishes the number of operating hours is higher than the limit at which the need for maintenance is signalled.

Display of Compressor Operation Hours

- 1. Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the key down for 1 s: the display will show the first label available.
- Press and release the $\boxed{\triangledown}$ key or the $\boxed{\triangledown}$ key to select "CH".
- Press and release the $_{\mbox{\scriptsize set}}$ key.

To exit the procedure:

- Press and release the $\[\]$ key or do not operate for 60 sec.
- 6.1 Press and release the $\boxed{\triangle_{\mathbf{k}}}$ or down $\boxed{\triangle_{\mathbf{k}}}$ key until the display shows the cell temperature or do not operate for 60 sec.

Alternatively:

6.2 Press and release the \bigcirc key.

7.3 Cancelling the HACCP alarm list

- 1. Make sure that the keyboard is not locked and that no procedure is in progress.
- Hold the $\ \ \, \ \ \, \ \ \, \ \ \, \ \ \,$ key down for 1 s: the display will show the first label available.
- Press and release the \triangle key or the ∇ key to select "rCH".
- Press and release the $\ensuremath{\boxed{\mbox{\tiny set}}}$ key.
- Press and release the \triangle , key or the \triangle , key within 15 s to set "149".
- Press and release the set key or do not operate for 15 sec: the display will show "- - -" flashing for 4 sec, after which the device will exit the procedure.

SETTINGS

Setting the working set-point

- Make sure that the keyboard is not locked and that no procedure is in progress.
- Press and release the st key: the & LED will flash. Press and release the \triangle or $\boxed{\lor}$ key within 15 sec; see also parameters r1, r2 and r3
- Press and release the $\ensuremath{\text{set}}$ key or do not operate for 15 sec: the & LED will switch off and then the device will exit the procedure.

To exit the procedure before the operation is complete:

5. Do not operate for 15 sec (any changes will be saved). The working set-point can also be set via parameter SP.

Setting the configuration parameters

To begin the procedure:

- Make sure no procedures are in progress
- Hold the \triangle key and the ∇ key down for 4 s: the display will show "**PA**".
- Press and release the set key.
- Press and release the $\boxed{\triangle}$ key or the $\boxed{\triangledown}$ key within 15 s to set "-19".
- Press and release the set key or do not operate for
- Hold the $\triangle_{\blacktriangleright}$ key and the $\boxed{\triangledown_{\blacksquare}}$ key down for 4 s: the display will show "**SP**".

To select a parameter:

7. Press and release the \triangle key or the ∇ key.

To change a parameter:

- 8. Press and release the $_{\mbox{\scriptsize set}}$ key.
- Press and release the $\boxed{\triangle}$ key or the $\boxed{\nabla}$ key within 15 sec.
- 10. Press and release the $\begin{tabular}{|l|l|l|}\hline \end{tabular}$ key or do not operate for 15 sec.

To exit the procedure:

11. Hold down the \triangle and ∇ keys for 4 sec and do not operate for 60 sec (any changes will be saved).

After changing the parameters, suspend power supply flow to the device.

8.3 Restoring the Manufacturer's Settings

To begin the procedure:

- Make sure no procedures are in progress
- Hold the \triangle key and the ∇ key down for 4 s: the display will show "**PA**".
- Press and release the set key.
- Press and release the \triangle , key or the ∇ key within 15 s to set "149".

- Press and release the $\[\]$ key or do not operate for 15 sec.
- Hold the \triangle , key and the $\boxed{\triangledown}$ key down for 4 s: the display will show "**dEF**".
- Press and release the set key.
- Press and release the $\boxed{\triangle}$ key or the $\boxed{\nabla}$ key within
- Press and release the $_{\tt set}$ key or do not operate for 15 sec: the display will show " ${\tt dEF}''$ flashing for 4 sec, after which the device will exit the procedure.
- 10. Cut the device power supply off.

To exit the procedure before the operation is complete:

11. Hold the \triangle and $\overline{\nabla}$ key down for 4 s during the procedure (i.e. before setting "1": Restore will not be performed).

Make sure that the manufacturer's settings are appropriate

WARNING LIGHTS AND DIRECTIONS

Signals LED Part

compressor LED light

if the LED is on, then the compressor is on if the LED is flashing:

- the working set-point is in the process of being changed (via the procedure described in paragraph 8.1)
- a compressor protection will be in progress; see parameters C0, C1, C2, C14, C15, C16 and i7
- Defrost LED

If it is on:

- defrosting is in progress
- predripping will be in progress; see parameter d16

If the LED is flashing:

- defrosting will be requested but a compres sor protection will be in progress; see the parameters C0, C1 and C2
- dripping will be in progress; see parameter d7
- the refrigerant fluid heating will be in progress; see parameter d15
- if it is on:

the evaporator fan will be on If the LED is flashing:

Evaporator fan LED light

evaporator fan standstill will be in progress; see parameter F3

AUX Auxiliary LED

If it is on:

- the cell light will have been switched on in manual mode (only if parameter u0/u1 is set at 0)
- the demister resistors will be switched on (only
- if the parameter u0/u1 is set at 1) the auxiliary output will have been switched
- on in manual mode (only if parameter u0/u1 set at the door resistors will be switched on (only
- if the parameter u0/u1 is set at 4) the evaporator valve will be activated (only if parameter u0/u1 is set at 5)
- the condenser fan will be on (only if parameter u0/u1 is set at 6)

if the LED is flashing:

- the cell light will have been switched on in remote mode; see parameters i0 and i5 (only if parameter u0/u1 is set at 0)
- the auxiliary output will have been switched on in remote mode; see parameters i0 and i5 (only if parameter u0/u1 is set at 1)

HACCP HACCP LED

if it is on, all information regarding HACCP alarms has not been displayed

if it is flashing, the device has stored at least one new HACCP alarm if it is off, all information regarding the HACCP alarms has been displayed or the list of alarms has

maintenance LED

if on, compressor maintenance will be requested; see parameter C10 'overcooling" LED

if it is on, the "overcooling" function will be in function; see parameters r5 and r6

degree Celsius LED if on, the temperatures will be displayed using the degree Celsius grade unit of measurement; see parameter P2

if flashing, the "energy saving" function is in progress (with effect only on the compressor)

LVCO 3.p.	A. Code 104/(2001)14 Fage 4 01 10 F1 14/15 Version 1.1
۰F	degree Fahrenheit LED
	if on, the temperatures will be displayed using the
	degree Fahrenheit grade unit of measurement;
	see parameter P2
	if flashing, the "energy saving" function is in progress (with effect only on the compressor)
(l)	On/stand-by LED
Ŭ	if it is on, the device will be off ("stand-by"
	state) if it is off, the device will be on ("on" state)
9.2	Signal Descriptions/Explanations
Code	Part
rhL	operation for a low percentage of relative humidity
rhH	in progress operation for a high percentage of relative humidity
	in progress
Loc	the keyboard is blocked; see paragraph 3.12
	the work set-point is blocked; see parameter r3 the operation requested is not available
10	ALARMS
10.1 Code	Alarms Part
AL	Minimum alarm temperatures (HACCP alarms)
	Solutions:
	check the temperature associated to the alarm; see parameters A0, A1 and A2
	Main consequences:
	- if parameter A0 is set to 0, the device will
	store the alarm
	the alarm output will be activated (only if parameter u0/u1 is set at 3)
AH	Maximum temperature alarm (HACCP alarms)
	Solutions:
	- check the cell temperature; see parameters A4 and A5
	Main consequences:
	the device will memorise the alarm
	the alarm output will be activated (only if parameter u0/u1 is set at 3)
id	Door microswitch input alarm (HACCP alarms)
	Solutions:
	- check the causes of the activation of the in- put; see parameters i0, i1, i5 and i6
	Main consequences:
	- the effect established with the parameters i0
	and i5 - if parameter is set to 1, the device will store the
	alarm, provided parameter i2 is not set to -1
	- the alarm output will be activated (only if
iA	parameter u0/u1 is set at 3) Multifunction input alarm
	Solutions:
	- check the causes of the activation of the in-
	put; see parameters i0, i1, i5 and i6 Main consequences:
	- the effect established with the parameters i0
	and i5
	- the alarm output will be activated (only if parameter u0/u1 is set at 3)
iSd	Pressure switch alarm
	Solutions: - check the causes of the activation of the in-
	put; see parameters i0, i1, i5, i6, i7, i8 and i9
	- switch off and re-start the device or suspend
	the power supply Main consequences:
	- the regulators will switch off
	- the alarm output will be activated (only if
UA	parameter u0/u1 is set at 3) Mains voltage alarm
OA.	Solutions:
	- check the mains voltage; see parameters C14,
	C15 and C16 Main consequences:
	- the compressor will be switched off and will
	not be switched on
CF	Compressor forced switch-on alarm Solutions:
	- check the mains voltage; see parameter C18
	Main consequences:
	- the device will perform forced compressor switch-on; the device restores normal display
	when the temperature of the cell reaches the
	work set-point.
сон	Condenser overheated alarm. Solutions:
	- check the condenser temperature; see pa-
	rameter C6
	Main consequences:

the alarm output will be activated (only if

parameter u0/u1 is set at 3)

11 1

Pr2

the condenser fan will be on (only if parameter u0/u1 is set at 6) CSd Condenser overheated alarm. Solutions:

check the condenser temperature; see parameter C7

switch the device off and back on again: if when the device is switched back on, the temperature of the condenser is still higher than that established in parameter C7, disconnect the power supply and clean the condenser

Main consequences:

- the compressor and the evaporator fan will be switched off
- the alarm output will be activated (only if parameter u0/u1 is set at 3)
- the condenser fan will be on (only if parameter u0/u1 is set at 6)

Defrosting alarm switched off because maximum time has been reached Solutions:

- heck the integrity of the evaporator probe; see parameters d2, d3 and d11
- press a key to restore normal display Main consequences:
- the device will continue to operate normally.

When the cause of the alarm disappears, the device restores normal operation, except for the following alarms:

- pressure switch alarm (code "iSd") which requires the switching off of the device or the temporary suspension of the power supply
- compressor blocked by condenser temperature alarm (code "CSd") which requires the switching off of the device or the temporary suspension of the power supply
- the compressor forced switch-on alarm (code "CF") that requires the cell temperature to have reached the work set-point
- Defrosting alarm switched off because maximum time has been reached (code " $\textbf{dFd}^{\prime\prime})$ which requires the pressing of a key.

ERRORS

1.1	Errors
Code	Part
Pr1	Cell probe error

Solutions:

- check that the probe is the PTC or NTC type; see parameter P0
- check the device-probe connection
- check the cell temperature

Main consequences:

- compressor activity will depend on parameters C4 and C5
- the defroster will not be activated
- the alarm output will be activated (only if parameter u0/u1 is set at 3)
- the door resistors will be switched off (only if the parameter u0/u1 is set at 4)
- the evaporator valve will be deactivated (only if parameter u0/u1 is set at 5)
- Evaporator probe error

Solutions:

the same as the preceding case but with respect to the evaporator probe

Main consequences:

- if parameter P3 is set to 1, the defrosting period will last for the amount of time set with parameter 3
- if parameter P3 is set to 1 and parameter d8 is set to 2 or to 3, the device will operate as if parameter d8 were set to 0
- if parameter F0 is set to 3 or 4, the device will operate as if the parameter were set to 2
- the alarm output will be activated (only if parameter u0/u1 is set at 3)

Pr3 Condenser probe error.

Solutions:

the same as the preceding case but with respect to the condenser probe

Main consequences:

- condenser overheated alarm (code "COH") will not be activated
- the compressor blocked alarm ("CSd" code)
- will never be activated the alarm output will be activated (only if parameter u0/u1 is set at 3)
- the condenser fan will operate parallel tot the compressor (only if parameter u0/u1 is set at

When the problem that caused the alarm disappears, the device is restored to normal operation.

TECHNICAL DATA

12 1 Technical data

Purpose of the command device: operating command device.

Construction of the command device: built-in electronic device.

Case: grey self-extinguishing.

Dimensions: $180.0 \times 38.0 \times 44.0 \text{ mm}$ (7.086 x 1.496 x 1.732 in; L x H x D).

Method of mounting the command device: panel, with elastic retaining wings.

Protection rating: IP55.

Connections: 6.3 mm faston (0.248 in, power supply and outputs), removable screw terminal board (inputs), 6 pole connector (serial port).

The maximum length of the analogue input and digital input connection cables must be less than 10 m (32.808 ft).

Operating temperature: from 0 to 55 °C (from 32 to 131 °F). Storage temperature: from -25 to 70 °C (from -13 to

Humidity for use: from 10% to 90% relative humidity without condensate.

Command device pollution situation: 2.

Power supply (according to the model):

115... 230 VAC (+10% -15%), 50/60 Hz, 5.5 VA max

230 VAC (+10% -15%), 50/60 Hz, 3 VA max. Rated impulse voltage: 4K V.

Overvoltage category:

- II in models with power supply of 115... 230 VAC
- III in models with power supply of 230 VAC.

Class and structure of software: A.

Analogue inputs:

- 1 input (cell probe) in EVR221, EVR231, EVR261 and EVR271 models, can be set via configuration parameter for PTC/NTC probes
- 2 inputs (cell probe and evaporator probe) in EVR202, EVR232, EVR203, EVR233, EVR263, EVR273, EVR204, EVR234, EVR264 and EVR274 models, can be set via configuration parameter for PTC/NTC probes.

PTC type analogue inputs (990 Ω @ 25°C, 77°F)

Type of sensor: KTY 81-121.

Measurement field: from -50 to 150 $^{\circ}\text{C}$

(from -58 to 302°F).

Resolution: 0.1 °C (1 °F). Protection: none.

PTC type analogue inputs NTC (10K Ω @ 25°C, 77°F)

Type of sensor: ß3435. Measurement field: from -50 to 105 °C (from -40

220 °C).

Resolution: 0.1 °C (1 °F).

none. Digital inputs: 1 input (door micro/multi-function 1 switch),

which can be set via configuration parameter due to normally open contact/normally closed contact (free of voltage contact, 5 VDC, 2 mA)

Digital inputs none. Power:

Protection: none. Other inputs (in EVR204, EVR234, EVR264 and

EVR274 models only): 1 input that can be set via configuration parameter for analogue input (condenser probe)/digital input (door microswitch/multifunction 2), with the same technical features illustrated previously.

Displays: custom 3 digit display with function icon.

Digital outputs:

1 output (electromechanical relay) in EVR221, EVR231, EVR261 and EVR271 models

1 x 30 A res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 115... 230 VAC, 1 x 16 A in-rush res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 230 VAC

2 outputs (electromechanical relays) in EVR202 and EVR232 models

- 1 x 30 A res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 115... 230 VAC, 1 x 16 A in-rush res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 230 VAC
- 1 x 8 A res. output @ 250 VAC type SPDT (K2) for management of the cell light, demisting resistors, aux. output, alarm output, door resistors, evaporator valve, evaporator fan or defrost.

3 outputs (electromechanical relays) in EVR203, EVR233, EVR263 and EVR273 models

- 1 x 30 A res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 115... 230 VAC, 1 x 16 A in-rush res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 230 VAC
- 1 x 8 A res. output @ 250 VAC type SPDT (K2) for cell light or defrosting management
- 1 x 5 A res. output @ 250 VAC type SPST (K3) for management of the evaporator fan.

4 outputs (electromechanical relays) in EVR204, EVR234, EVR264 and EVR274 models

1 x 30 A res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 115... 230 VAC, 1 x 16 A in-rush res. output @ 250 VAC type SPST (K1) for compressor management in models with power supply of 230 VAC

250

- 1 x 8 A res. output @ 250 VAC type SPDT (K2) for defrosting management
- 1 x 5 A res. output @ 250 VAC type SPST (K3) for management of the evaporator fan
- 1 x 8 A res. output @ 250 VAC type SPST (K4) for management of the cell light, demisting resistors, aux. output, alarm output, door resistors, evaporator valve or condenser fan.

The maximum load current allowed is 10 A.

Type 1 or Type 2 actions: Type 1.

Complementary features of Type 1 or Type 2 actions: C. Communication port: 1 x TTL serial port with MODBUS communication protocol (for EVKEY programming key and other EVCO products).

Operation with EVT100 remote indicator is only allowed in models with power supply of 115... 230 VAC.

Signal buzzer and alarm: on request.

mou	eis with p	ower sup	ppiy or 230	J VAC							
13	WORKIN	IG SET-F	OINT AN	D CONFI	GURATIO	ON PARA	METERS				
13.1	Working	set-po	int								
PARAM.	MIN.	MAX.	U.M.	EVR221	EVR261	EVR202	EVR203	EVR263	EVR204	EVR264	WORKING SET-POINT
				EVR231	EVR271	EVR232	EVR233	EVR273	EVR234	EVR274	
	r1	r2	°C/°F (1)	-18,0	-18,0	0,0	-18,0	-18,0	-18,0	-18,0	working set-point; see also r0
13.2	Configur	ation p	arameter	'S							
PARAM.	MIN.	MAX.	U.M.	EVR221	1				1		WORKING SET-POINT
					EVR271						
SP	r1	r2	°C/°F (1)		-18,0	0,0	-18,0	-18,0	-18,0		working set-point; see also r0
PARAM.	MIN.	MAX.	U.M.	EVR221	1				1		MEASUREMENT INPUTS
					EVR271				-		
CA1	-25	25,0	°C/°F (1)	1 .	0,0	0,0	0,0	0,0	0,0	0,0	offset cell probe
CA2	-25	25,0	°C/°F (1)				0,0	0,0	0,0	0,0	offset evaporator probe
CA3	-25	25,0	°C/°F (1)		not avail					0,0	offset condenser probe
P0	0	1		1	1	1	1	1	1	1	probe type
											0 = PTC
											1 = NTC
P1	0	1		1	1	1	1	1	1	1	degree Celsius decimal point (during normal operation)
											1 = YES
P2	0	1		0	0	0	0	0	0	0	temperature unit of measurement (2)
											0 = °C
											1 = °F
Р3	0	2		not avail.	not avail.	. 1	1	1	1	1	evaporator probe function
											0 = probe absent
											1 = defrosting probe and probe for evaporator fan thermostating
											2 = probe for evaporator fan thermosatating
P4	0	1		not avail.	not avail.	not avail	not avail.	not avail	1	1	fourth input function

										0 = digital input (multi-function input 2) 1 = analogue input (condenser probe)
P6	0	4	 0	0	reserved	0	0	0	0	value displayed by the remote indicator (not significant in models with 230 VAC power supply)
										0 = cell temperature
										1 = work set-point

2 evaporator temperature 3 "cell temperature - evaporator temperature'

condenser temperature (only if P4 = 1) delay displaying temperature variation detected by the probes

				EVK231	EVKZ/I	EVR232	EVR233	EVR2/3	EVR234	EVR2/4	
r0	0,1 (3)	15,0	°C/°F (1)	2,0	2,0	2,0	2,0	2,0	2,0	2,0	working set-point differential
r1	-99	r2	°C/°F (1)	-50	-50	-50	-50	-50	-50	-50	minimum working set-point
r2	r1	99,0	°C/°F (1)	50,0	50,0	50,0	50,0	50,0	50,0	50,0	maximum working set-point
r3	0	1		0	0	0	0	0	0	0	locking of working set-point calibration (using the procedure described in paragraph
											9.1)

4	0,0	99,0	°C/°F (1)	0,0	0,0	0,0	0,0	0,0	0,0	0,0	increase in temperature during "energy saving" function; see also i0, i5 and i10
5	0,0	99,0	°C/°F (1)	0,0	0,0	0,0	0,0	0,0	0,0	0,0	decrease in temperature during "overcooling" function; see also r6
6	0	240	min	30	30	30	30	30	30	30	duration of "overcooling" function; see also r5

P8	0	250	0.1 S	5	5	5	5	5	5	5	delay displaying temperature variation detected by the probes
PARAM.	MIN.	MAX.	U.M.	EVR221	EVR261	EVR202	EVR203	EVR263	EVR204	EVR264	MAIN REGULATOR
				EVR231	EVR271	EVR232	EVR233	EVR273	EVR234	EVR274	
r0	0,1 (3)	15,0	°C/°F (1)	2,0	2,0	2,0	2,0	2,0	2,0	2,0	working set-point differential
r1	-99	r2	°C/°F (1)	-50	-50	-50	-50	-50	-50	-50	minimum working set-point
r2	r1	99,0	°C/°F (1)	50,0	50,0	50,0	50,0	50,0	50,0	50,0	maximum working set-point
r3	0	1		0	0	0	0	0	0	0	locking of working set-point calibration (using the procedure described in paragraph
											9.1)
											1 = YES
r4	0,0	99,0	°C/°F (1)	0,0	0,0	0,0	0,0	0,0	0,0	0,0	increase in temperature during "energy saving" function; see also i0, i5 and i10
r5	0,0	99,0	°C/°F (1)	0,0	0,0	0,0	0,0	0,0	0,0	0,0	decrease in temperature during "overcooling" function; see also r6
r6	0	240	min	30	30	30	30	30	30	30	duration of "overcooling" function; see also r5
r8	0	1		0	0	0	not avail.	not avail.	not avail	not avail	operation in cooling or heating (4)
											0 = for cooling
PARAM.	MIN.	MAX.	U.M.	EVR221	EVR261	EVR202	EVR203	EVR263	EVR204	EVR264	COMPRESSROR PROTECTION SYSTEM
				EVR231	EVR271	EVR232	EVR233	EVR273	EVR234	EVR274	
C0	0	240	min	0	0	0	0	0	0	0	delay in switching on of compressor after the device switches on (5)
C1	0	240	min	5	5	5	5	5	5	5	minimum time between two consecutive compressor start-ups; also delay in com-
											pressor start-up after conclusion of cell probe error (code "Pr1") (6) (7)
C2	0	240	min	3	3	3	3	3	3	3	minimum compressor switch-off duration; see also C18 (6) (8)
C3	0	240	S	0	0	0	0	0	0	0	minimum duration of compressor switch on time
C4	0	240	min	10	10	10	10	10	10	10	duration of compressor switch off during cell probe error (code "Pr1"); see also C5
C5	0	240	min	10	10	10	10	10	10	10	duration of compressor switch on during cell probe error (code "Pr1"); see also C4
C6	0,0	199	°C/°F (1)	not avail.	not avail.	not avail	not avail	not avail	. 80,0	80,0	condenser temperature is higher than that at which the condenser overheating alarm
											is activated (code "COH") (9)
C7	0,0	199	°C/°F (1)	not avail.	not avail	not avail	not avail	not avail	90,0	90,0	condenser temperature is higher than the limit at which the compressor blocked
											alarm is activated (code "CSd")

C8	0	15	min	not avaii.	not avail	.not avaii.	not avaii.	not avaii	4 I	1	blocked compressor alarm delay (CSd code) (10)
C10	0	999	10 h	0	0	0	0	0	0	0	number of operating hours is higher than the limit at which the need for maintenance
											is signalled
											0 = function absent
C14	0	300	V	not avail.	200	not avail.	not avail.	200	not avail.	200	mains voltage, below which the compressor is not switched on

C14	0	300	V	not avail.	200	not avail. not avail.	200	not avail.	200	mains voltage, below which the compressor is not switched on
C15	0	C14	V	not avail.	190	not avail. not avail.	190	not avail.	190	mains voltage below which the compressor is switched off; see also C17
C16	C14	300	V	not avail.	255	not avail. not avail.	255	not avail.	255	mains voltage above which the compressor is switched off or is not switched on; see
										also C17

C17	0	60	S	not avail	. 5	not avail.	not avail.	. 5	not avail.	. 5	consecutive minimum duration of mains voltage permanence below C15 or above C16, such to cause switch-off of the compressor
C18	0	60		not avail	. 5	not avail.	not avail.	. 5	not avail.	. 5	consecutive number of compressor switch ons aborted due to mains voltage outside of C14, C15 or C16, such to cause forced compressor switch-on (11)
											0 = C4, C5 and C6 will not have effect
PARAM.	MIN.	MAX.	U.M.	EVR221	EVR261	EVR202	EVR203	EVR263	EVR204	EVR264	oo = the device will never perform forced compressor switch on DEFROSTING
d0	0	99	h	EVR231	EVR271	EVR232 8	EVR233	EVR273	EVR234 8	EVR274	if d8 = 0, 1 or 2, defrosting interval (12)
uo	O	99	"					0			0 = interval defrosting will never be activated
d1	0	2		not avail	not avail	. 0	0	0	0	0	if d8 = 3, maximum defrost interval type of defrosting
											0 = <u>ELECTRIC</u> - during defrosting the compressor will remain off and the defrosting output will be activated; evaporator fan activity will depend on parameter F2 1 = <u>BY HOT GAS</u> - during defrosting the compressor will be switched on and the
											defrosting output will be activated; evaporator fan activity will depend on parameter F2 2 = <u>VIA STOPPING OF COMPRESSOR</u> - during defrosting the compressor will remain switched off and the defrosting output will remain deactivated; evaporator fan activity will depend on parameter F2
d2	-99	99,0			not avail		2,0	2,0	2,0	2,0	temperature at end of defrosting (only if P3 = 1); see also d3
d3	0	99	min	30	30	30	30	30	30	30	se P3 = 0 or 2, defrosting duration se P3 = 1, maximum defrosting duration; see also d2
d4	0	1		0	0	0	0	0	0	0	0 = defrosting will not be activated defrosting on device switch-on (5)
											1 = YES
d5	0	99	min	0	0	0	0	0	0	0	if $d4 = 0$, minimum time between switching on of device and activation of defrosting; see also i0 and i5 (5) if $d4 = 1$, delay in activation of defrosting after device is switched on ; see also i0 and i5 (5)
d6	0	1		1	1	1	1	1	1	1	temperature displayed during defrosting 0 = cell temperature 1 = if at the time of defrosting activation, the cell temperature is lower than the
											"working set-point $+$ r0", at most "working set- point $+$ r0"; if at the time of defrosting activation, the cell temperature is higher than the "working set-point $+$ r0", at most the cell temperature when defrosting is activated
d7	0	15	min	not avail	not avail	. 2	2	2	2	2	dripping duration (during dripping the compressor will remain switched off and the defrosting output will remain deactivated; if $d16 = 0$, evaporator fan activity will depend on parameter F2; if $d16 \neq 0$, the evaporator fan will remain switched off)
d8	0	3 (14)		0	0	0	0	0	0	0	defrosting activation methods 0 = AT INTERVALS - defrosting will be activated once the device has altogether
											been running for time d0
											1 = AT INTERVALS - FOR COMPRESSOR SWITCH-ON - defrosting will be activated once the compressor has altogether been switched on for time d0 2 = AT INTERVALS - FOR EVAPORATOR TEMPERATURE - defrosting will be activated when the evaporator temperature has remained below the temperature d9 for a total time of d0 (15)
											3 = ADAPTABLE - defrosting will be activated at intervals, whose duration will each time depend on the duration of compressor switch-ons and the evaporator temperature; see also d18, d19 and d22 (15)
d9	-99	99,0	PC/°F (1,	not avail	not avail.	. 0,0	0,0	0,0	0,0	0,0	evaporator temperature is higher than that at which the defrost interval counter is suspended (only if $d8 = 2$)
d11	0	1		not avail	not avail	. 0	0	0	0	0	enabling of defrosting alarm concluded for maximum duration (code "dFd"; only if P3 = 1 and in absence of an evaporator probe error (code "Pr2") 1 = YES
d15	0	99	min	not avail	not avail	. 0	0	0	0	0	minimum time that the compressor must be switched on before defrosting can be activated (only if $d1 = 1$) (16)
d16	0	99	min	not avail	not avail	. 0	0	0	0	0	predripping duration (during predripping the compressor will remain switched off, the
d18	0	999	min	not avail	not avail	. 40	40	40	40	40	defrosting output will be activated and the evaporator fan will remain switched off) defrosting interval (only if $d8 = 3$; defrosting will be activated when the compressor has been on totally, with the evaporator temperature below that of d22, for time
d19	0,0	40,0	0C/0F (1)	not avail	not avail	. 3,0	3,0	3,0	3,0	3,0	d18) 0 = defrosting will never be activated due to the effect of this condition evaporator temperature above which the defrost is activated (relative to the evapo-
		,								ŕ	rator temperatures average, or "evaporator temperatures average - $d19$ ") (only if $d8=3$)
d20	0	500	min		not avail		180	180	180	180	minimum consecutive time the compressor must be switched on such as to provoke the defrost activation 0 = defrosting will never be activated due to the effect of this condition
d22	0,0	10,0	°C/°F (1)	not avail	not avail	. 2,0	2,0	2,0	2,0	2,0	evaporator temperature above which the defrosting interval is suspended (relative to the evaporator temperatures average, or "evaporator temperatures average + d22") (only if d8 = 3); also look at d18
PARAM.	MIN.	MAX.	U.M.		EVR261 EVR271	EVR202 EVR232	EVR203 EVR233		EVR204 EVR234		TEMPERATURE ALARMS
A0	0	1			not avail		0	0	0	0	temperature associated with the minimum temperature alarm (code "AL") 0 = cell temperature 1 = evaporator temperature (17)
A1	-99	99,0	°C/°F (1)	-10,0	-10,0	-10,0	-10,0	-10,0	-10,0	-10,0	temperature below that at which the minimum temperature alarm is activated (code
A2	0	2		1	1	1	1	1	1	1	"AL"); see also A0, A2 and A11 type of minimum temperature alarm (code "AL")
											0 = alarm absent 1 = relative to working set-point (that is "working set-point - A1"; consider A1 without sign)
A4	-99	99,0	°C/°F (1)	10,0	10,0	10,0	10,0	10,0	10,0	10,0	temperature higher than that at which the maximum temperature alarm is activated
A5	0	2		1	1	1	1	1	1	1	(code "AH"); see also A5 and A11 type of maximum temperature alarm (code "AH") 0 = alarm absent
											1 = relative to working set-point (that is "working set-point + A4"; consider A1 without sign)) 2 = absolute (that is A4)

The content of the component is a second of the component of the compone	A6	0	240	min	120	120	120	120	120	120	120	delay in maximum temperature alarm (code "AH") after the device is switched on
May 9 20 20 nn 12 13 13 13 13 13 13 13	Δ7	0	240	min	15	15	15	15	15	15	15	
20												delay in maximum temperature alarm (code "AH") from the conclusion of evapora-
20	ΔQ	0	240	min	15	15	15	15	15	15	15	. ,
PART			240									, , , , , , , , , , , , , , , , , , , ,
Section Process Proc												
1	ranam.	PILIV.	PIAA.	0.141.								EVAFORATOR TAIN AND CONDENSER TAIN
1	F0	0	5		not avail.	not avail.	1	1	1	1	1	
1												1 = switched on; see also F13, F14 and i10 (20)
4 - switched off if the compressor is switched sity, dependent on F1 if the compressor is switched sity, see also P2 compressor is switched sity, see also P3 compressor is switched by P4 compressor is switched by P4 compressor is switched by P4 compressor is switched by the defecting object of the switched by P4 compressor is switched by P4 compressor in the switched by P4 compressor is switched by P4 compressor in switched by P4 compressor in the switched by P4 compressor in the switched by P4 compressor in the switched by P4 compressor in t												
Fig. 49 95,6 (CPF () poet avail part avail = 1,0												
F1												, , ,
	F1	-99	99,0	°C/°F (1	not avail	not avail	-1,0	-1,0	-1,0	-1,0	-1,0	
F3 0 15 min vot available		0	2				0		0			(only if F0 = 3 or 4); see also F8
F3 0 15 min not avail not avail. Col. 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	F2	0	2		not avaii.	not avaii.	U	0	0	0	U	
F3												, , ,
Fig. 10 240 s not avail not avail. 10 10 10 10 10 10 10 10 10 10 10 10 10	F3	0	15	min	not avail.	not avail.	not avail	. 2	2	2	2	·
F4 0 240 s not avail not avail. 60 60 60 60 60 60 10 10 10 10 10 10 10 10 10 10 10 10 10												fan deactivation the compressor can be switched on, the defrosting output will
page of relative humidity, when the compressor is switched off, see also PS (only II) FS 0 240 s pot avail not avail. 10 10 10 10 10 10 independent of the exponent of fails is writched off using operation for a low percentage of relative humidity, when the compressor is switched off, see also PS (only II) FS 0 1 1 Pod avail.not avail. 0 0 0 0 0 0 operation for low or high percentage of relative humidity (relative to proceed the page of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the percentage of relative humidity (relative to proceed fails). The page of the p		0	240	S	not avail.	not avail	60	60	60	60	60	
F5 0 240 s not avail not avail 0 10 10 10 10 10 10 10 10 10 10 10 10 1			2.0		not avail							age of relative humidity when the compressor is switched off; see also F5 (only if
page of relative humilicity when the compressor is switched off; see also F4 (only if P6 – 5) (25) F6 0 1 1 hot avail not avail 0 0 0 0 0 0 operation for low or high percentage of relative humidity (only if F6 – 5) (25) F7 99 99.0 C/F (1) not avail not avail not avail of avail 0 0 0 0 0 0 operation for low or high percentage of relative humidity (only if F6 – 5) (25) F7 90 0 240 5 hot avail not avail 0 0 0 0 0 0 delay in the switching set-point, that is "working set-point +77"); see also F3 F8 0,1 (3) 15,0 F/F (1) not avail no	F5	0	240	e	not avail	not avail	10	10	10	10	10	
FF	13		240		lioc avaii.	lioc avaii.	10	10	10	10	10	age of relative humidity when the compressor is switched off; see also F4 (only if
Parameter Para	F6	0	1		not avail	not avail	0	0	0	0	0	
F7 99 99,0 CyFF (I)not avail.not avail.not avail. 5,0 5,0 5,0 5,0 6,0 64,00 64,	. 0		_		not avail							1, , , , , , , , , , , , , , , , , , ,
F7												,
Fig. 0.1 (3) 15,0 FC/FF (I) not avail not avail. 0 0 0 0 0 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 1 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 1 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 1 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 1 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 1 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 1 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off of the compressor (only if ID = 2, 3, 4 and 5) 2 delay in the switching off off only in the	F7	-99	99,0	°C/°F (1	not avail	not avail	not avail	5,0	5,0	5,0	5,0	evaporator temperature below limit at which the evaporator fan is deactivated
F9	ΕQ	0.1 (3)	15.0	9C/9E (1	not avail	not avail	2.0	2.0	2.0	2.0	2.0	, , , , , , , , , , , , , , , , , , , ,
FIT 0,0 99,0 C/FE (3) not avail not												delay in the switching off of evaporator fan following the switching off of the
F12	F1.1	0.0	99 0	°C/°F (1	not avail	not avail	not avail	not avail	not avail	15.0	15.0	
F13 0 240 10 s not avail not avail. 30 30 30 30 30 30 30 30 30 30 30 30 30			,	C) ! (I							,	+ 2.0 °C/4 °F, only if u0/u1 = 6) (26) (27)
F13 0 240 10 s not avail. not avail. 30 30 30 30 Idente the evaporator fan remains turned off during function "energy saving"; see also F14 and 10 (only F6 = 1, 2, 3 or 4) F14 0 240 10 s not avail. not avail. 30 30 30 30 30 30 Idente the evaporator fan remains turned on during function "energy saving"; see also F13 and 10 (only F6 = 1, 2, 3 or 4) F14 0 240 10 s not avail. not avail. 30 30 30 30 30 30 Idente the evaporator fan remains turned on during function "energy saving"; see also F13 and 10 (only F6 = 1, 2, 3 or 4) F14 0 240 10 s not avail. not av	F12	0	240	S	not avail.	not avail.	not avail	not avail	not avail	. 30	30	, ,
F14 0 240 10 s not avail. not avail 30 30 30 30 30 10 time the evaporator fan remains turned on during function "energy saving"; see also F13 and 10 (out f16 = 1, 2, 3 or 4) PARAM. MIN. MAX. U.M. EVR221 EVR261 EVR272 EVR233 EVR263 EVR264 EVR264 (DIGITAL INFUTS EVR231 EVR271 EVR272 EVR233 EVR273 EVR274 00 0 7 4 4 hot avail. not avail	F13	0	240	10 s	not avail.	not avail.	30	30	30	30	30	time the evaporator fan remains turned off during function "energy saving"; see also
PARAM. MIN. MAX. U.M. EVR.221 EVR.202 EVR.203 EVR.203 EVR.203 EVR.204 EVR.204 EVR.204 EVR.204 EVR.204 EVR.204 EVR.205 EVR.2074 EV	E1/	0	240	10.6	not avail	not avail	30	30	30	30	30	
EVR231 EVR272 EVR233 EVR273 EVR234 EVR274 10 0 7 4 4 not avail not avail not avail not avail effect caused by the activation of the door microswitch/multifunction 1 input; see also 14 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be ewitched off (at maximum for time i3 or until the input is deactivated) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT LALARM - once time 12 has passed the display will show the flashing code "Id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SWITCHING OF DOR MICROSWITCH INPUT LALARM - once time d5 has passed defrosting will be activated (until the input is deactivated), and the buzzer will be activated (until the input is deactivated), and the buzzer will be activated (until the input is deactivated), and buzzer will be activated (until the input is deactivated). 6 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT LALARM - once the buzzer will be activated (until the input is deactivated). 6 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT LALARM - the compressor will be activated (until the input is deactivated) when the input has been activated with parameter is the regulators will be switched off, the display will show the flashing code "IA" and the buzzer will be activated (until the input is deactivated) when the input has been activated will be switched off and the splay will show the flashing ode "IA" and the regulators will be switched off and the splay will show the flashing of the regulators will be switched off and the splay will show the flashing of the regulators will be switched off and the splay will show the flashing of the regulators will be switched off and the splay will show the flashing of the regulators will be switched off and the splay will show the flashing of the regulators will be switched off and the splay will show the flashing of the regulators will be switched off and the splay will show the flashing of the regulators will be switched off and t			240	10 3								, , , , , , , , , , , , , , , , , , , ,
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2 = <u>DOOR MICROSWITCH - EVAPORATOR FAN SWITCH-OFF</u> - the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) 3 = <u>DOOR MICROSWITCH - CELL LIGHT SWITCH-ON</u> - the cell light will be			7		EVR231 4	EVR271 4	EVR232 not avail.	EVR233 not avail.	EVR273 not avail	EVR234 not avail	EVR274 not avail	effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT ALARM - once time i2 has passed the display will show the flashing code "id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 4 = MULTIFUNCTION - ACTIVATION OF ENERGY SAVING FUNCTION - the "energy saving" function will be activated (until the input is deactivated), provided the "overcooling" function is running; see also r4 5 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) 6 = MULTIFUNCTION - ACTIVATION OF PRESSURE SWITCH ALARM - the compressor will be switched off, the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) when the input has been activated the number of times established with parameter i8 the regulators will be switched off, the display will show the flashing code "iSd" and the buzzer will be activated (until the input is deactivated and the device is switched off and re-started or until the power supply is interrupted); see also i7 and i9 7 = MULTIFUNCTION - SWITCHING OFF THE DEVICE - the device will be switched off (until the input is deactivated) effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect
fan will be switched off (at maximum for time i3 or until the input is deactivated) 3 = DOOR MICROSWITCH - CELL LIGHT SWITCH-ON - the cell light will be			7		EVR231 4	EVR271 4	EVR232 not avail.	EVR233 not avail.	EVR273 not avail	EVR234 not avail	EVR274 not avail	effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT ALARM - once time i2 has passed the display will show the flashing code "id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 4 = MULTIFUNCTION - ACTIVATION OF ENERGY SAVING FUNCTION - the "energy saving" function will be activated (until the input is deactivated), provided the "overcooling" function is running; see also r4 5 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) 6 = MULTIFUNCTION - ACTIVATION OF PRESSURE SWITCH ALARM - the compressor will be switched off, the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) when the input has been activated the number of times established with parameter i8 the regulators will be switched off, the display will show the flashing code "iSd" and the buzzer will be activated (until the input is deactivated) and the device is switched off and re-started or until the power supply is interrupted); see also i7 and i9 7 = MULTIFUNCTION - SWITCHING OFF THE DEVICE - the device will be switched off (until the input is deactivated) effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR AND EVAPORATOR FAN SWITCH-OFF - the compressor and the evaporator fan will be switched off (at
3 = <u>DOOR MICROSWITCH - CELL LIGHT SWITCH-ON</u> - the cell light will be			7		EVR231 4	EVR271 4	EVR232 not avail.	EVR233 not avail.	EVR273 not avail	EVR234 not avail	EVR274 not avail	effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT ALARM - once time i2 has passed the display will show the flashing code "id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 4 = MULTIFUNCTION - ACTIVATION OF ENERGY SAVING FUNCTION - the "energy saving" function will be activated (until the input is deactivated), provided the "overcooling" function is running; see also r4 5 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) 6 = MULTIFUNCTION - ACTIVATION OF PRESSURE SWITCH ALARM - the compressor will be switched off, the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) when the input has been activated the number of times established with parameter i8 the regulators will be switched off, the display will show the flashing code "iSd" and the buzzer will be activated (until the input is deactivated and the device is switched off and re-started or until the power supply is interrupted); see also i7 and i9 7 = MULTIFUNCTION - SWITCHING OFF THE DEVICE - the device will be switched off (until the input is deactivated) effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR AND EVAPORATOR FAN SWITCHOFF - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) (29)
			7		EVR231 4	EVR271 4	EVR232 not avail.	EVR233 not avail.	EVR273 not avail	EVR234 not avail	EVR274 not avail	effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT ALARM - once time i2 has passed the display will show the flashing code "id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 4 = MULTIFUNCTION - ACTIVATION OF ENERGY SAVING FUNCTION - the "energy saving" function will be activated (until the input is deactivated), provided the "overcooling" function is running; see also r4 5 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) 6 = MULTIFUNCTION - ACTIVATION OF PRESSURE SWITCH ALARM - the compressor will be switched off, the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) when the input has been activated the number of times established with parameter i8 the regulators will be switched off, the display will show the flashing code "iSd" and the buzzer will be activated (until the input is deactivated and the device is switched off and re-started or until the power supply is interrupted); see also i7 and i9 7 = MULTIFUNCTION - SWITCHING OFF THE DEVICE - the device will be switched off (until the input is deactivated) effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR AND EVAPORATOR FAN SWITCH-OFF - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is
			7		EVR231 4	EVR271 4	EVR232 not avail.	EVR233 not avail.	EVR273 not avail	EVR234 not avail	EVR274 not avail	effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT ALARM - once time i2 has passed the display will show the flashing code "id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 4 = MULTIFUNCTION - ACTIVATION OF ENERGY SAVING FUNCTION - the "energy saving" function will be activated (until the input is deactivated), provided the "overcooling" function is running; see also r4 5 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) 6 = MULTIFUNCTION - ACTIVATION OF PRESSURE SWITCH ALARM - the compressor will be switched off, the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) when the input has been activated the number of times established with parameter i8 the regulators will be switched off, the display will show the flashing code "iSd" and the buzzer will be activated (until the input is deactivated and the device is switched off and re-started or until the power supply is interrupted); see also i7 and i9 7 = MULTIFUNCTION - SWITCHING OFF THE DEVICE - the device will be switched off (until the input is deactivated) effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR AND EVAPORATOR FAN SWITCH-OFF - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - EVAPORATOR FAN SWITCH-OFF - the evaporator fan will be switched off (at maximum for
			7		EVR231 4	EVR271 4	EVR232 not avail.	EVR233 not avail.	EVR273 not avail	EVR234 not avail	EVR274 not avail	effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT ALARM - once time i2 has passed the display will show the flashing code "id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 4 = MULTIFUNCTION - ACTIVATION OF ENERGY SAVING FUNCTION - the "energy saving" function will be activated (until the input is deactivated), provided the "overcooling" function is running; see also r4 5 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) 6 = MULTIFUNCTION - ACTIVATION OF PRESSURE SWITCH ALARM - the compressor will be switched off, the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) when the input has been activated the number of times established with parameter i8 the regulators will be switched off, the display will show the flashing code "iSd" and the buzzer will be activated (until the input is deactivated and the device is switched off and re-started or until the power supply is interrupted); see also i7 and i9 7 = MULTIFUNCTION - SWITCHING OFF THE DEVICE - the device will be switched off (until the input is deactivated) effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR AND EVAPORATOR FAN SWITCH-OFF - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) 2 = DOOR MICROSWITCH - EVAPORATOR FAN SWITCH-OFF - the evaporator fan will be switched off (at maximum for time
			7		EVR231 4	EVR271 4	EVR232 not avail.	EVR233 not avail.	EVR273 not avail	EVR234 not avail	EVR274 not avail	effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR SWITCH-OFF - the compressor will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - ACTIVATION OF DOOR MICROSWITCH INPUT ALARM - once time i2 has passed the display will show the flashing code "id" and the buzzer will be activated (until the input is deactivated) 3 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 4 = MULTIFUNCTION - ACTIVATION OF ENERGY SAVING FUNCTION - the "energy saving" function will be activated (until the input is deactivated), provided the "overcooling" function is running; see also r4 5 = MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) 6 = MULTIFUNCTION - ACTIVATION OF PRESSURE SWITCH ALARM - the compressor will be switched off, the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) when the input has been activated the number of times established with parameter i8 the regulators will be switched off, the display will show the flashing code "iSd" and the buzzer will be activated (until the input is deactivated and the device is switched off and re-started or until the power supply is interrupted); see also i7 and i9 7 = MULTIFUNCTION - SWITCHING OFF THE DEVICE - the device will be switched off (until the input is deactivated) effect caused by the activation of the door microswitch/multifunction 1 input; see also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR AND EVAPORATOR FAN SWITCH-OFF - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) 2 = DOOR MICROSWITCH - EVAPORATOR FAN SWITCH-OFF - the evaporator fan will be switched off (at maximum for time

											DOOR MICROSWITCH - SWITCH-OFF OF THE COMPRESSOR, EVAPORATOR FAN, SWITCH-ON OF CELL LIGHT - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) and the cell light will be switched on (only if u0/u1 = 0, until the input is deactivated) (29) DOOR MICROSWITCH - SWITCH-OFF OF THE EVAPORATOR FAN, SWITCH-ON OF CELL LIGHT - the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) and the cell light will be switched on (only if u0/u1 = 0, until the input is deactivated) MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated MULTIFUNCTION - ACTIVATION OF "ENERGY SAVING" FUNCTION - the "energy saving" function will be activated (just with effect on the compressor, until the input is deactivated), provided the "overcooling" function is not running; see also r4 MULTIFUNCTION - ACTIVATION OF MULTIFUNCTION INPUT ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated) MULTIFUNCTION - ACTIVATION OF THE PRESSURE SWITCH ALARM - the compressor will be switched off, if u0/u1 = 6 the condenser fan will be switched on, the display will show the flashing code iA" and the buzzer will be activated the number of times established with parameter i8 the regulators will be switched off, if u0/u1 = 6 the condenser fan will be switched on, the display will show the flashing code iA" and the buzzer will be activated the number of times established with parameter i8 the regulators will be switched off, if u0/u1 = 6 the condenser fan will be activated (until the input is deactivated); see also i7 and i9 MULTIFUNCTION - SWITCHING ON THE AUXILIARY OUTPUT - the auxiliary output will be switched on (only if u0/u1 = 2, until the input is deactivated) MULTIFUNCTION - SWITCHING OF THE DEVICE - the device will be switched off (until the input is deactivated)
i1	0	1		0	0	0	0	0	0	0	type of door microswitch/multifunction 1 input contact 0 = normally open (active input with closed contact)
i2	-1	120	min	30	30	30	30	30	30	30	1 = normally closed (active input with open contact) delay in signalling of door microswitch input alarm (code "id")
i3	-1	120	min	15	15	15	15	15	15	15	-1 = the alarm will not be signalled maximum duration of the effect caused by the activation of the door microswitch
i4	0	1		0	0	0	0	0	0	0	input on the compressor and the evaporator -1 = the effect will last until the input is deactivated storage of door microswitch input alarm (code "id") (30)
i5	0	11						not avail.		7	1 = YES effect caused by the activation of the door microswitch/multifunction 2 input; see
											also i4 (28) 0 = no effect 1 = DOOR MICROSWITCH - COMPRESSOR AND EVAPORATOR FAN SWITCH-OFF - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) (29) 2 = DOOR MICROSWITCH - EVAPORATOR FAN SWITCH-OFF - the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) 3 = DOOR MICROSWITCH - CELL LIGHT SWITCH-ON - the cell light will be switched on (only if u0/u1 = 0, until the input will be deactivated) 4 = DOOR MICROSWITCH - SWITCH-OFF OF THE COMPRESSOR, EVAPORATOR FAN, SWITCH-ON OF CELL LIGHT - the compressor and the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) and the cell light will be switched on (only if u0/u1 = 0, until the input is deactivated) (29) 5 = DOOR MICROSWITCH - SWITCH-OFF OF THE EVAPORATOR FAN, SWITCH-ON OF CELL LIGHT - the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated) and the cell light will be switched on (only if u0/u1 = 0, until the input is deactivated) and the cell light will be switched on (only if u0/u1 = 0, until the input is deactivated) 6 = MULTIFUNCTION - SYNCHRONISATION OF DEFROSTING PERIODS - once time d5 has passed defrosting will be activated 7 = MULTIFUNCTION - ACTIVATION OF "ENERGY SAVING" FUNCTION - the "energy saving" function will be activated (just with effect on the compressor, until the input is deactivated), provided the "overcooling" function is not running; see also r4 8 = MULTIFUNCTION - ACTIVATION OF THE PRESSURE SWITCH ALARM - once time i7 has passed the display will show the flashing code "iA" and the buzzer will be activated (until the input is deactivated): when the input has been activated the number of times established with parameter i8 the regulators will be switched off, if u0/u1 = 6 the condenser fan will be switched on, the display will show the flashing code iA" and the buzzer will be activated (until the input is deactivated): when the input has been
i6	0	1		not avail	not avail.	not avail.	not avail.	not avail.	. 0	0	type of door microswitch/multifunction 2 input contact 0 = normally open (active input with closed contact)
i7	0	120	min	0	0	0	0	0	0	0	1 = normally closed (active input with open contact) if i1 and/or i5 = 8, multifunction input alarm delay (code "iA") if i1 and/or i5 = 9, delay in compressor switching on after the deactivation of the
i8	0	15		0	0	0	0	0	0	0	nultifunction input (31) number of multifunction input alarms (code "iA") such to cause a pressure switch alarm (code "iSd") (only if i0 and/or i5 = 9) 0 = alarm absent

i9	1	999	min	240	240	240	240	240	240	240	time that must pass in absence of multifunction output alarms (code "iA") so that
											the alarm counter is reset (only if i0 and/or i5 = 9)
i10	0	999	min	0	0	0	0	0	0	0	time without activations of the door switch input (on condition that the cabinet
											temperature has reached the working set-point) in order that function "energy
											saving" is activated (it has effect on the evaporator fan only if F0 = 1, 2, 3 or 4) 0 = the function will never be activated due to the effect of this condition
i13	0	240		180	180	180	180	180	180	180	number of door switch input activations such as to provoke the defrost activation
113	O	240		100	100	100	100	100	100	100	0 = defrosting will never be activated due to the effect of this condition
i14	0	240	min	32	32	32	32	32	32	32	minimum duration of the door switch input activation such as to provoke the defrost
											activation
											0 = defrosting for this condition will never be activated
PARAM.	MIN.	MAX.	U.M.		1					_	DIGITAL OUTPUTS
					EVR271		EVR233				
u0	0	7		not avail.	not avail.	. 7	not avail.	not avail.	not avail	not avail	operation controlled by second output (32)
											0 = <u>CELL LIGHT</u> - in this case the key and parameters i0, i5 AND u2 will be
											activated 1 = DEMISTER RESISTORS - in this case the key and parameter u6 will be
											activated
											2 = AUXILIARY OUTPUT - in this case the key and parameters i5 and u2 will
											be activated
											3 = <u>ALARM OUTPUTS</u> - in this case parameter u4 will be activated
											4 = DOOR RESISTORS - in this case parameter u5 will be activated
											5 = <u>RESISTORS FOR NEUTRAL AREA OPERATION</u> - in this case parameter u7
											will be activated
											6 = EVAPORATOR FAN - in this case parameters d7, d16, F, i0 and i10 will be
											activated
											7 = <u>DEFROST</u> - in this case parameters d1, d7 and d16 will be activated
u0	0	1		not avail.	not avail.	not avail	. 1	1	not avail.	not avail	utility managed by the second output (32)
											0 = <u>CELL LIGHT</u> - in this case the key and parameters i0 and u2 will be
											activated 1 = DEFROSTING - in this case, the d0 d22 parameters will be activated
u1	0	6	-	not avail	not avail.	not avail	not avail	not avail	0	0	1 = <u>DEFROSTING</u> - in this case, the d0 d22 parameters will be activated operation controlled by fourth output (32)
uı	U			not avail.	liot avaii.	iiot avaii	liot avaii	illot avail	1	0	0 = <u>CELL LIGHT</u> - in this case the key and parameters i0, i5 AND u2 will be
											activated
											1 = <u>DEMISTER RESISTORS</u> - in this case the key and parameter u6 will be
											activated
											2 = AUXILIARY OUTPUT - in this case the key and parameters i5 and u2 will
											be activated
											3 = ALARM OUTPUTS - in this case parameter u4 will be activated
											4 = <u>DOOR RESISTORS</u> - in this case parameter u5 will be activated
											5 = <u>RESISTORS FOR NEUTRAL AREA OPERATION</u> - in this case parameter u7
											will be activated
											6 = <u>CONDENSER FAN</u> - in this case parameters P4, F11 and F12 will be
u2	0	1		not avail	not avail.	. 0	0	0	0	0	activated enabling of manual switch on/switch off of the cell light or the auxiliary output when
uz	U	1		not avail.	liot avaii.	. 0	0	0	"	0	the device is switched off(only if $u0/u1 = 0$ or 2) (33)
											1 = YES
u4	0	1		not avail.	not avail.	1	not avail	not avail.	1	1	enabling of alarm output deactivation with the silencing of the buzzer (only if
u i	Ü	1		noc avan.	lioc avaii.	1	not avail	inoc avaii.] -	1	u0/u1 = 3)
											1 = YES
u5	-99	99,0	°C/°F (1)not avail	not avail.	-1,0	not avail.	not avail.	-1,0	-1,0	temperature of the cell below which the door resistors are switched on
		,	, ,			,			, ·		("u5 - 2,0 °C/4 °F, only if u0/u1 = 4) (9)
u6	1	120	min		not avail.	. 5	not avail	not avail.	. 5	5	operating time of demister resistors (only if $u0/u1 = 1$)
u7	-99	99,0	°C/°F (1)not avail	not avail.	-5,0	not avail.	not avail.	-5,0	-5,0	neutral area value (relative to the work set-point, i.e. "work set-point + u7) (only
											if $u0/u1 = 5$) (34)
u8					not avail.			not avail.			reserved
u9	0	1		1	1	1	1	1	1	1	enabling the buzzer
DADAM	NATNI	MAN	11.54	E) (D22.1	EV/Pacs	EV/DOOS	E) (D202	E) /B262	EV/B201	E) (D2C)	1 = YES
PARAM.	MIN.	MAX.	U.M.	EVR221 EVR231	EVR261 EVR271		EVR203 EVR233	EVR263 EVR273	EVR204	_	ENERGY SAVING
HE2	0	999	min	0	0	0	0	0	0	0	maximum duration of the "energy saving" function activated due to the effect of
IILZ	U	223	'''''								absence of door microswitch input activation
											0 = the function will last until the input is activated
PARAM.	MIN.	MAX.	U.M.	EVR221	EVR261	EVR202	EVR203	EVR263	EVR204	EVR264	SERIAL NETWORK
					EVR271			EVR273			
LA	1	247		247	247	247	247	247	247	247	device address
Lb	0	3		2	2	2	2	2	2	2	baud rate
											0 = 2.400 baud
											1 = 4.800 baud
											2 = 9.600 baud
				_				_			3 = 19.200 baud
LP	0	2		2	2	2	2	2	2	2	parity
											0 = none (no parity)
											$\begin{array}{ll} 1 & = & \text{odd} \\ 2 & = & \text{even} \end{array}$
		I	I	1	I	l	I	I	I	I	= GVGII

Notes:

- the unit of measurement depends on P2 (1)
- (2)
- (3)
- Properly set the parameters corresponding to the regulators after modifying parameter P2 the value depends on parameter P2 (0.1 °C or 1 °F) if parameter r8 is set at 1, the "energy saving" function and the defrosting functions will not be enabled (4)
- the parameter has effect even after an interruption in the power supply that occurs while the device is switched on (5) the parameter has effect even after an interruption in (5) the power supply that occurs while the device is switched on
- the time established with the parameter is counted even when the device is switched off (6)
- if parameter C1 is set to 0, the delay after the end of the cell probe error will be 2 min (7) (8) if parameter C2 is set to 0, the device will function as if parameter C18 were set to 0 $\,$
- The parameter differential is 2.0 °C/4 °F (9)
- if when the device is switched on, the condenser temperature is already above that established in parameter C7, then parameter C8 will not have effect (10)
- the device verifies the mains voltage at established intervals with parameter C2; if there is a power cut, the count of the number of switch-ons aborted will be reset. (11)
- (12)the device memorises the defrosting interval count every 30 minutes; the modification of parameter d0 has effect from the conclusion of the previous defrosting interval (or the activation of defrosting in manual mode)

- (13)the display restores normal operation when, on conclusion of evaporator fan standstill, the cell temperature drops below that which has blocked the display (or if a temperature alarm occurs)
- (14)in the EVR221, EVR231, EVR261 and EVR271 models, the maximum value of parameter d8 is 1 $\,$
- (15)if parameter P3 is set to 0 or 2, the device will function as if parameter d8 were set to 0
- (16)if when defrosting is activated, the operating duration of the compressor is less than the time established with parameter d5, the compressor will remain on for the amount of time necessary to complete defrosting.
- (17)if parameter P3 is set to 0, the device will function as if parameter A0 were set to 0 but it will not store the alarm
- (18)during defrosting and dripping and when the evaporator fan is stopped, the temperature alarms are absent, provided that these were signalled after the activation of defrosting
- (19)during activation of the door microswitch input, the maximum temperature alarm is absent, provided the alarm was signalled after the activation of the input
- (20)parameters F13 and F14 have effect when the compressor is off
- (21)parameters F13 and F14 have effect when the compressor is on
- (22) if parameter P3 is set to 0, the device will function as if parameter F0 were set to 2
- (23)parameters F13 and F14 have effect when the evaporator temperature is below the temperature established with parameter F1
- (24) parameters F13 and F14 have effect when the compressor is on and the temperature of the evaporator is below the temperature established with parameter F1
- (25)the parameter can also be modified using the procedure described in paragraph 4.2
- (26) if parameter P4 is set to 0, the condenser fan will function in parallel with the compressor
- (27) the condenser fan is off when the temperature of the condenser drops below the temperature established with parameter F11 on condition that the compressor is off
- (28) if the parameter i0 and parameter i5 are set at the same value, the effect will be caused by the activation of at least one of the inputs (until both inputs are deactivated)
- (29)the compressor is switched off 10 sec after the activation of the input; if the input is activated during defrosting or when the evaporator fan is deactivated, the activation will not have any effect on the compressor
- (30)the device stores the alarm once the time established in parameter i2 has expired; if parameter i2 is set to -1, the device will not store the alarm
- (31)make sure that the time established with parameter i7 is less than that established with parameter i9
- (32)to avoid damaging the unit connected to the instrument, change the parameter setting when the device is switched off
- (33)if parameter u2 is set to 0, switching off the device may cause the cell light and/or the auxiliary output to switch off (the next time the instrument is switched on the unit connected will remain switched off); if parameter u2 is set to 1, switching off the device will not cause the cell light or the auxiliary output to switch off (the next time the instrument is switched on the unit connected will remain switched on).
- (34)the resistors are switched on when the temperature of the cell drops below the "work set-point + u7" and are switched off when the temperature rises above the "work set-point + u7 + 2 °C/°F".