ENGLISH

IMPORTANT Important 1.1 Read these instructions carefully before installing and using the device and follow all additional information for installation and electrical connection; keep these instructions close to the device for future

consultations

The device must be disposed according to the local legislation about the collection for electrical and electronic equipment. SIZE AND INSTALLATION

2 1 Size Size in mm (in)





0

67.0 (2.637)-



2.2 Installation

a)

b)

d

e) f)

a)

h)

i)

i)

k)

I) m)

5

6

8

9

5

- With reference to the following drawing, the device is made of: 1 preassembled (instrument, fixing bolts and nuts of the instrument and polyester) frontal covering 1 back covering 2 screw hider plugs assembling the coverings 2 tongues assembling the coverings 11 right angle female faston and insulating covers 1 fairlead for Ø 20.0 mm (0.787 in) rigid pipe
 - 2 screws assembling the coverings
 - 2 gaskets for screws assembling the coverings
 - 1 gasket for back covering
 - 2 Ø 6.0 mm (0.236 in) wall screw anchors and screws fixing the back covering
 - 2 gaskets for screws fixing the back covering
 - marks for holes for screws fixing the back covering
 - marks for hole for fairlead for rigid pipe.

5.1

To install the device operate as follows (please note covering a) and covering b) are not symmetrical):

Make two holes in the marks I).

- If you want the cables are inserted from the top or from the 2 bottom, make one hole in one of the marks m); if you want the cables are inserted from the back, make a hole at the back of the covering b)
- Make two holes Ø 6.0 mm (0.236 in) in the wall where you want to install the device using the marks I) perforated as reference
- Insert the screw anchors j) in the holes of the wall
- If you want the cables are inserted from the top or from the
- bottom, assemble the fairlead f) in one of the marks m) perforated. Insert the gaskets k) in the screws il. 6
- If you want the cables are inserted from the back, silicone the back of the covering b) along the slot in relief and along the two vertical segments
- Fix the covering b) to the wall through the screws j) and 8 the gaskets k)
- 9 Lean the covering a) to the covering b) and insert the tonaues d).
- 10 Let the covering a) hanging, to allow operating inside the device
- 11 Insert the connecting cables through the covering b). 12
- Make the electrical connection of the preassembed instrument using the faston e) (look at the instructions of the preassembled instrument).
- 13 Apply the gasket i) in the covering b) positioning the extremities in the lower part of the covering.
- 14 Lean the covering a) to the covering b) again and fix it through the screws g) and the gaskets h). 15 Apply the plugs c).
- **ELECTRICAL CONNECTION** 3

3.1 Electrical connection

Look at the instructions of the preassembled instrument.

AVAILABLE CODES Available codes 4.1

ASOX214000: cold room controller preassembled with EVX214N7 (alarm buzzer and serial port are supported), fixing bolts and nuts of the instrument and polyester

TECHNICAL DATA

Technical data

Box: self-extinguishing grey

Frontal protection: IP 65

Connections: 6.3 mm (0.248 in) wide faston (power supply and outputs), screw terminal block (inputs), 6 poles connector (serial port). Working temperature: from 0 to 55 °C (32 to 131 °F, 10 ... 90% of relative humidity without condensate).

Power supply: 230 VAC, 50/60 Hz, 3 VA (approximate).

Also look at the instructions of the preassembled instrument.

ITALIANO (\mathbf{D})

IMPORTANTE 1.1

Importante Leggere attentamente gueste istruzioni prima dell'installazione e prima

dell'uso e seguire tutte le avvertenze per l'installazione e per il collegamento elettrico; conservare queste istruzioni con il dispositivo per consultazioni future. Il dispositivo deve essere smaltito secondo le normative



a)

b)

C

d)

e)

f)

g)

h)

j)

k)

m)

locali in merito alla raccolta delle apparecchiature elettriche ed elettroniche DIMENSIONI E INSTALLAZIONE

2.1 Dimensioni

Si veda il disegno del paragrafo 2.1 della sezione in Inglese Le dimensioni sono espresse in mm (in).

Installazione 2.2

Con riferimento al disegno del paragrafo 2.2 della sezione in Inglese, il dispositivo è composto da:

- 1 guscio frontale preassemblato con strumento, bulloni e dadi di fissaggio dello strumento e poliestere
- 1 guscio posteriore
- 2 tappi copriviti di assemblaggio dei gusci
- 2 linguette di assemblaggio dei gusci
- 11 faston femmina a 90° e cappucci isolanti
- 1 passacavo per tubo rigido Ø 20,0 mm (0,787 in)
- 2 viti di assemblaggio dei gusci
 - 2 guarnizioni per viti di assemblaggio dei gusci 1 guarnizione per guscio posteriore
- 2 tasselli Ø 6,0 mm (0,236 in) da muro e relativi viti di fissaggio del guscio posteriore
- 2 guarnizioni per viti di fissaggio del guscio posteriore tracce per fori per viti di fissaggio del guscio posteriore
 - traccia per foro per passacavo per tubo rigido.

Per installare il dispositivo operare nel modo indicato (si noti che il qui scio a) e il guscio b) non sono simmetrici):

- Effettuare due fori nelle tracce I).
- Se si desidera che i cavi vengano infilati dall'alto o dal bas-2 so, effettuare un foro in una delle tracce m); se si desidera che i cavi vengano infilati da dietro, effettuare un foro sul retro del auscio b)
- 3 Effettuare due fori Ø 6,0 mm (0,236 in) nella parete dove si intende installare il dispositivo utilizzando le tracce I) forate come guida.
- Infilare i tasselli j) nei fori della parete.
 - Se si desidera che i cavi vengano infilati dall'alto o dal basso, assemblare il passacavo f) in una delle tracce m) forata. Infilare le quarnizioni k) nelle viti j).
- Se si desidera che i cavi vengano infilati da dietro, siliconare il retro del guscio b) lungo l'asola in rilievo e lungo i due segmenti verticali.
- Fissare il guscio b) alla parete attraverso le viti j) e le guarnizioni k).
- Appoggiare il guscio a) al guscio b) e infilare le linguette d). 10 Lasciare il guscio a) a sbalzo, per poter operare all'interno del dispositivo.
- 11 Infilare i cavi di collegamento nel guscio b).
- 12 Effettuare il collegamento elettrico dello strumento preassemblato utilizzando i faston e) (si vedano anche le istruzioni dello strumento preassemblato).
- 13 Applicare la guarnizione i) nel guscio b) posizionandone le estremità nella parte inferiore del guscio.
- 14 Applicare nuovamente il guscio a) al guscio b) e fissarlo attraverso le viti g) e le guarnizioni h).
- 15 Applicare i tappi c).
- **COLLEGAMENTO ELETTRICO** з 3.1 Collegamento elettrico

le istruzioni dello strumento preassemblato. <u>Si ve</u>

CODICI DISPONIBILI

4 1 Codici disponibili

ASOX214000: frontecella preassemblato con EVX214N7 (il buzzer di allarme e la porta seriale sono supportati), bulloni e dadi di fissaggio dello strumento e poliestere

DATI TECNICI Dati tecnici

5.1 Contenitore: autoestinguente grigio.

Grado di protezione del frontale: IP 65

Evco S.p.A. • Code 104QX214000A00 • page 2/2

Connessioni: faston da 6,3 mm (0,248 in, alimentazione e uscite), morsettiera a vite (ingressi), connettore a 6 poli (porta seriale). Temperatura di impiego: da 0 a 55 °C (da 32 a 131 °F, 10 ... 90% di umidità relativa senza condensa). Alimentazione: 230 VCA, 50/60 Hz, 3 VA (approssimativi). Si vedano anche le istruzioni dello strumento preassemblato.



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PT = 30/10

EVX Series Digital Controllers for Static and Ventilated Refrigeration Display Cabinets

Real Time Clock

ON/STAND-BY)

munications protocol)

probe) for NTC probes

• 3 measure inputs (cell probe, evaporator probe and condenser

• 4 digital outputs (relay, 5 for EVX215) for operation of the compres-

sor (30 A @ 250 VAC), defroster, the evaporator fan, a fourth and a

fifth use (programmable as cell light, demister resistor, auxiliary out-

put, output alarm, door resistor, evaporator valve or condenser fan);

The models are open (without covers); the user interface consists of a

4 digit custom display (with decimal points and functional icons) and

by six buttons (SET, UP, DOWN, DEFROST, AUXILIARY and

Using the EVKEY programming key (to be ordered separately) it is

possible to carry out the uploading and downloading of the configu-

ration parameters; it is also possible to connect the controllers RICS supervision system (via serial interface, via TTL, with MODBUS com-

· 2 digital inputs (door microswitch and multifunction)

Installation is completed via back panel using M3 studs.

defrosting may be electric or by hot gas.

EN ENGLISH

1.1 Important

1.1 Important Carefully read these instructions before installing and using the product. Pay close attention to the notes on installation and electrical wiring

connections; save these instructions together with the instrument for future reference.

2 1

2 INTRODUCTION 2.1 Introduction

EVX is a new range of digital controllers for the operation of static and EVX214 and EVX215 are equipped with.

ventilated refrigerating cabinets.

- The series is composed of the following models: • <u>EVX201</u> - for the operation of static refrigerated cabinets, with simple
- HACCP function
- EVX203, EVX204 and EVX205 for the operation of ventilated refrigerated cabinets, with simple HACCP function
- EVX214 and EVX215 for the operation of ventilated refrigerated cabinets, with timer, advanced HACCP function and an Energy Saving function.

EVX201 is equipped with

- 1 measurement input (cell probe) for NTC probes
- 1 digital input (door microswitch)
- 1 digital output (relay) for compressor operation (16 A @ 250 VAC); defrosting occurs when the compressor is stopped.
- EVX203 is equipped with: • 2 measurement inputs (cell probe and evaportor probe) for NTC probes

1 digital input (door microswitch)

• 3 digital outputs (relay) for compressor operation (16 A @ 250 VAC), defrosting and the evaporator fan; defrosting may be either electrical or by hot gas.

EVX204 and EVX205 are equipped with:

- 3 measure inputs (cell probe, evaporator probe and condenser probe) for NTC probes
- 2 digital inputs (door microswitch and multifunction)
- 4 digital outputs (relay, 5 for EVX205) for operation of the compressor (30 A @ 250 VAC), defroster, the evaporator fan, a fourth and a fifth use (programmable as cell light, demister resistor, auxiliary output, output alarm, door resistor, evaporator valve or condenser fan); defrosting may be electric or by hot gas.

3 DIMENSIONS AND INSTALLATION

3.1 Dimensions

The dimensions are expressed in mm (in)



3.2 Installation

Back panel installation using M3 studs.



The user interface consists of a custom 4-digit display (with decimal points and function icons) and six keys (SET, UP, DOWN, DEFROST, AUXILIARY and ON/STAND-BY).

3.3 Installation notes

- make sure that the working conditions (operating temperature, humidity, etc.) fall within the limits inidcated in the technical specifications
- do not install the device near heat sources (resistors, hot air ducts, ect.), near devices with strong magneti (large diffusors etc.) and places subject to direct sunlight, rain, humidity, excessive dust, mechanical vibrations or shaking
- in accordance with laws on safety, protection against possible contact with electrical parts must be ensured via the correct installation of the instrument; all the parts that ensure such protection must be secured in such a way that they cannot be removed without the using a special tool.



Operating Statuses:

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

version 3.02

- "stand-by" status (the instrument 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)
- "off" status (the instrument 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 instrument displays the status that it was in at the time it was disconnected.

4.2 Manual switching on/off of the instrument

- make sure that the keyboard is not locked and that no other operation is in progress
- press and hold down the ON/STAND-BY key for 2 sec: the on/ stand-by LED will switch off/on.
- For EVX204, EVX214, EVX205 and EVX215:

Using the multifunction input it is possible to remotely switch on/off the instrument.

4.3 The display

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

4.4 Evaporator temperature display (but EVX201)

- make sure that the keyboard is not locked and that no other operation is in progress
- press down the **DOWN** key for 1 sec: the display will show the first available label
- press and release the UP or the DOWN key to select "Pb2"
- press and release the SET key.
- To exit the procedure:
- - press and release the SET key and do not operate for 60 sec

 press and release the UP key and the DOWN key until the display shows the cell temperature and then do not operate for 60 sec.
 Alternatively:

- press and release the ON/STAND-BY key
- If the evaporator probe is absent (parameter P3 = 0), the label "**Pb2**" will not be displayed.

4.5 Condenser temperature display (EVX204, EVX214, EVX205 and EVX215 only)

- make sure that the keyboard is not locked and that no other operation is in progress
- press down the **DOWN** key for 1 sec: the display will show the first label available
- press and release the UP key or the DOWN key to select "Pb3"
- press and release the SET key
- To exit the procedure:
- press and release the **SET** key and then do not operate for 60 sec
- press and release the UP or DOWN key until the display shows the
- cell temperature and then do not operate for 60 sec Alternatively:

• press and release the ON/STAND-BY key.

If the condenser probe is absent (parameter P4 = 0), the label "**Pb3**" will not be displayed.

4.6 Activation/disactivation 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 (the last two but EVX201)
- press and hold down the UP key for 4 sec: the Overcooling LED will light up.

During the Overcooling function the working setpoint is reduced by the temperature established with parameter r5; the operation lasts for the amount of time established with parameter r6. 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.

4.7 Manual Activation of Defrosting

 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

• press and hold down the **DEFROSTING** key for 4 sec

For EVX203, EVX204, EVX214, EVX205 and EVX215:

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.

4.8 Operation for low or high percentage of relative humidity (but EVX201 and provided parameter F0 is set to 5)

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). During operation for a bird percentage of relative to switched on).

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

4.8.1 Manual activation of operation for low or high percentage of relative humidity (but EVX201 and provided parameter F0 is set to 5)

- make sure that the keyboard is not locked and that no other procedures are in progress
- press the SET and the UP keys for 4 sec: the display will show "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.

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

If parameter F0 is not set to 5, pressing the SET and the UP keys will cause the display of the following message "- - - " for 1 sec

4.8.2 Display of type of operation in progress (for low or high percentage of relative humidity, but EVX201 and provided that parameter F0 is set to 5)

make sure that no other procedure is in progress

 press and release the SET and the UP keys: the display will show "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 to 5, pressing the SET and UP 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 locked.

- Manual switching on/off of the cell light (EVX204, 4.9 EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 0) • make sure that no other procedure is in progress
- press and release the AUXILIARY key : the LED light will switch on/off.

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

If parameter u1 is set at 0 (i.e. the utility managed by the fourth output is the cabinet light) and parameter u11 is set at 2 (i.e. the utility managed by the fifth output is the auxiliary output), holding the AUXILIARY key down for 2 s will cause the switch-on/off of the multipurpose LED and of the auxiliary output.

4.10 Switching on the demisting resistors (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 1)

• ensure that the instrument is switched on and that no other procedure is in progress.

• press the AUXILIARY key for 2 sec: the multifunction 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).

- 4.11 Manually switch on/off of the Auxiliary output (EVX204, EVX214, EVX205 and EVX215 only and provided parameter u1 and/or parameter u11 is set to 2)
- . ensure that the keyboard is not locked and that no other procedure is in progress

• press and release the AUXILIARY key.

Using the multifunction input it is also possible to remotely switch on/ off the auxiliary output.

If parameter u1 is set at 2 (i.e. the utility managed by the fourth output is the auxiliary output) and parameter u11 is set at 0 (i.e. the utility managed by the fifth output is the cabinet light), holding the AUXILIARY key down for 2 s will cause the switch-on/off of the

cabinet light LED and of the cabinet light. If the auxiliary output has been switched on manually, then it can also be switched off manually (similarly, if the auxiliary output has been remotely switched on, then it can only be switched off in the same

manner); see also parameter u2. 4.12 Energy Saving (but EVX201)

During function Energy Saving the working setpoint 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).

Once the time you have set with parameter i10 has passed (without activations of the door switch digital input and on condition that the cabinet temperature has reached the working setpoint) function Energy Saving is activated automatically (as long as the input will be activated)

4.12.1 Activation/deactivation of function Energy Saving with effect on the compressor only (EVX204, EVX214, EVX205 and EVX215)

Through the multipurpose input it is possible to activate/deactivate function Energy Saving at a distance.

Function Energy Saving can be activated in real time too, to the time you have set with parameter HE1; in this case the duratin of the function can be set through parameter HE2.

4.13 Locking/unlocking the keyboard

To lock the keyboard:

- make sure that no other procedure is in progress
- press and hold down the DOWN and ON/STAND-BY keys for 1 sec: the display will show the message "Loc" for 1 sec.

- If the keyboard is locked, the following are not permitted:
- manual switch on/off of the instrument
- display of evaporator temperature (via the procedure explained in paragraph 4.4)
- display of the condenser temperature (via the procedure indicated in paragraph 4.5)
- activation/disactivation of Overcooling function
- manual activation of defrosting
- activation of operation for low of high percentage of relative humidity and learning the kind of operation
- manual switch on/off of the auxiliary output
- see information regarding the HACCP alarms
- cancellation of HACCP alarm list
- . changing the date and time
- . changing the working setpoint (with the procedure described in 5 21
- display of compressor operation hours
- cancellation of compressor operation hours The operations cause the display of the label "Loc" per
- 1 sec
- To unlock the keyboard:
- press and hold down the DOWN and ON/STAND-BY keys for 1 sec: the display will show the message "UnL" for 1 sec.

4.13 Silencing the Buzzer

• ensure that no other procedure in is progress • press a key (the first pressing of the key will not cause the effect asso-, ciated with that key).

For EVX204, EVX214, EVX205 and EVX215:

- If parameter u1 and/or parameter u11 is set to 3 and parameter u4 is set to 1, pressing the key will also disactivate the alarm output.
- If parameter u9 is set to 0, the buzzer will not be activated SETTINGS 5

Setting the day and real time (EVX214 and EVX215 5.1 only)

- ensure that the keyboard is not locked and that no other procedures are in progress
- press and hold down the DOWN key for 1 sec: the display will show the first label available
- press and release the UP or DOWN key to select "rtc"
- To change the year

• press and release the SET key: the display will show "yy" followed by the last two numbers in the year and the clock LED will flash • press and release the UP or DOWN key within 15 sec

- To change the month:
- press and release the SET key while changing the year: the display will show "nn" followed by the two numbers of the month
- press and release the UP or DOWN key within 15 sec.
- To change the day of the month:
- press and release the SET key while changing the month: the display will show "dd" followed by the two numbers of the day press and release the UP or DOWN key within 15 sec.
- To change the hour:
- press and release the SET key while changing the day of the month: the display will show "**hh**" followed by the two numbers of the hour
- press and release the UP or DOWN key within 15 sec.
- The hour is displayed using the 24 hour system.
- To change the minutes:
- press and release the SET key while changing the hour: the display will show " $\boldsymbol{\mathsf{nn}}$ ' followed by the two minute numbers
- press and release the UP and DOWN keys within 15 sec
- press and release the SET key or do not operate for 15 sec: the clock
- LED will switch off To exit the procedure:
- press and release the UP or DOWN key until the diplay shows the cell temperature and then do not operate for 60 sec
- Alternatively • press and release the **ON/STAND-BY** key.

5.2 Setting the working setpoint

- ensure that the keyboard is not locked and that no other procedure is in progress.
- press and release the **SET** key: the compressor LED will flash
- press and release the UP or DOWN key within 15 sec; see also parameters r1, r2 and r3
- press and release the SET key or do not operate for 15 sec: the compressor LED will switch off and then the instrument will exit the procedure.
- To exit the procedure before the operation is complete:
- do not operate for 15 sec (any changes will be saved).

The working setpoint can also be set via parameter SP.

5.3 Setting the configuration parameters

To begin the procedure.

- ensure that no other procedure is in progress • hold down the UP and DOWN keys for 4 sec: the display will show "PA"
- press and release the SET key
- press and release the UP or DOWN key within 15 sec to set "-19"
- press and release the SET key or do not operate for 15 sec • hold down the UP and DOWN keys for 4 sec: the display will show
- "SP
- To select a parameter:
- press and release the UP or DOWN key.

To change a parameter.

To exit the procedure:

to the instrument.

To begin the procedure:

• press and release the SET key

• press and release the SET key

ment will exit the procedure.

HACCP FUNCTION

Preliminary notes

(see chapter 12).

• the critical value

AL

AH

id

Important Notes:

alarm is in progress)

6.1

suspend the power supply to the instrument.

EVX201, EVX203, EVX204, EVX205 and EVX215:

CODE ALARM TYPE (CRITICAL VALUE)

mation has already been displayed.

restored to normal operation.

For EVX214 and EVX215:

if the alarm is in progress).

instrument is switched off

critical value

AL

AH

id

PF

duration

the normal display

Notes:

storage status; see paragraph 8.1.

most recent alarm will substitute the oldest.

• the date and time the alarm was signaled

CODE ALARM TYPE (CRITICAL VALUE)

The instrument provides the following information:

of the cell during the alarm)

of the cell during the alarm)

The instrument is able to store up to 3 HACCP alarms.

The instrument provides the following inoformation:

ture during any alarm of this type)

ture during any alarm of this type)

To exit the procedure before the operation is complete:

(that is, before setting "1": the settings wil not be restored).

"PA"

"dEF"

• press and release the SET key. • press and release the UP or DOWN key within 15 sec.

for 60 sec (any changes will be saved).

5.4 Restoring the Manufacturer's Settings

make sure that no other procedure is in progress.

press and release the SET key or do not operate for 15 sec.

• hold down the UP and DOWN keys for 4 sec and do not operate

After changing the parameters, suspend power supply flow

• hold down the UP and DOWN key for 4 sec: the display will show

• press and release the UP or DOWN key within 15 sec to set "149"

press and release the UP or DOWN key within 15 sec to set "1"

• press and release the SET key or do not operate for 15 sec: the

hold down the UP and DOWN keys for 4 sec during the procedure

Make sure that the manufacturer's settings are appropriate

• the alarm duration (from 1 min to 99 hours and 59 min, partial if the

• the codes are displayed in the order shown in the table

• the instrument stores the minimum and maximum tem-

with the alarm is that of the cell (parameter A0 = 0)

• the instrument updates the information regarding the

the alarm provided the critical value of the new alarm is

more critical than that stored alarm or provided the infor-

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

When the problem that caused the alarm disappears, the display is

The HACCP LED provides information regarding the HACCP alarm

The instrument is able to store up to 9 HACCP alarms, after which the

• the duration of the alarm (from 1 min to 99 hours and 59 min, partial

minimum temperature alarm (the minimum temperature

maximum temperature alarm (the maximum temperature

door microswitch input alarm (the maximum tempera-

power supply interruption alarm (cell temperature when

ture of the cell during the alarm); see also parameter i4

power is restored); see also parameters A10 and A12

• the instrument stores the minimum and maximum tem-

the alarm is that of the cell (parameter A0 = 0)

perature alarm provided the temperature associated with

to avoid repeatedly storing alarms due to interruptions

in the power supply, disconnect the power when the

· if the duration of the power supply interruption alarm is

long enough to cause a clock error (code "rtc"), the instru-

ment will not provide any information about the alarm

if the instrument is switched off no alarms will be stored

When the problem that caused the alarm disappears, the display is

restored to normal operation, with the exception of the power supply

interruption alarm (code "PF") which requires manual restoration of

perature alarms provided the temperature associated

minimum temperature alarm (the minium cell tempera-

maximum temperature alarm (the maximum cell tempera-

door microswitch input alarm (the maximum cell tempera-

ture during any alarm of this type; see also parameter i4

display will show "dEF" flashing for 4 sec, after which the instru-

 press and release the SET key or do not operate for 15 sec • hold down the UP and DOWN keys for 4 sec: the display will show

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To manually restore the normal display: • press a key.

If parameter u1 and/or parameter u11 is set to 3, pressing the key will disactivate the alarm output.

The HACCP LED provides information regarding the storage status of the alarms; see paragraph 8.1.

6.2 Display of HACCP alarm information For EVX201. EVX203. EVX204. EVX205 and EVX215:

To start the procedure:

- ensure that the keyboard is not locked and that no other procedure is in progress
- \bullet hold down the $\overleftarrow{\textbf{DOWN}}$ key for 1 sec: the display will show the first
- label available • press and release the UP or DOWN key to select "LS"
- press and release the SET key: the display will show one of the codes included in the table in paragraph 6.1.
- To select an alarm:

press and release the UP or DOWN key (to select, for example, "AH"). To view the information about the alarm:

- press and release the SET key: the HACCP LED will stop flashing and remain permanently on and the display will show the following
- sequence of information (for example):
- INFO. MEANING 8.0 the critical value is 8.0 °C/8 °F dur the display is about to show the duration of the alarm h01 the alarm has been going off for 1 hour (data continues... n15 the alarm lasted for 1 hour and 15 min AH the alarm selected
- The display shows each message for 1 sec.

To exit the sequence of information:

- press and release the ON/STAND-BY key: the display will show the alarm selected (in the example "AH").
- To exit the procedure:
- exit the sequence of information
- press and release the **UP** or **DOWN** key until the display shows the cell temperature and then do not operate for 60 sec.
- Alternatively:
- exit the sequence of information.

• press and release the **ON/STAND-BY** key.

- If the instrument does not have any alarms stored, the label " $\ensuremath{\mathsf{LS}}$ " will not be displayed.
- For EVX214 and EVX215:
- To start the procedure:
- ensure that the keyboard is not locked and that no other operation is in progress
- hold down the DOWN key for 1 sec: the display will show the first label available
- press and release the UP or DOWN key to select "LS"
- press and release the SET key: the display will show the most recent alarm code (or rather, one of the codes shown in the table in paragraph 6.1) followed by the number "1"; the larger the number is that follows the alarm code, the older the alarm is).
- To select an alarm:
- press and release the UP or DOWN key (to select, for example, "AH3").
 To see information regarding the alarm:
- press and release the **SET** key: the HACCP LED will stop flashing and will remain permanently on and the display will show the following

sequence	e of information (for example):
INFO.	MEANING
8.0	the critical value is 8.0 °C/8 °F
StA	the display is about to show the date and hour in which
	the alarm was signaled
y09	the alarm was signaled in 2009 (data continues)
n03	the alarm was signaled in March (data continues)
d26	the alarm was signaled on the 26th of March 2009
h16	the alarm was signaled at 16:00 (other data continues)
n30	the alarm was signaled at 16:30
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
AH3	the alarm selected
The display	y will show each message for 1 sec.
To exit the	information sequence:

 press and release the ON/STAND-BY key: the display will show the selected alarm ("AH3" in the example).

To exit the procedure

- exit the information sequence
- press and release the UP or DOWN key until the display shows the cell temperature or do not operate for 60 sec.

Alternatively:

- exit the information sequence
 press and release the **ON/STAND-BY** key.
- If the instrument does not have any alarms stored, the label "LS" will not be displayed.

6.3 Cancelling the HACCP alarm list

- ensure that the keyboard is not locked and that no other operation is in progress
- hold down the **DOWN** key for 1 sec: the display will show the first available label
- press and release the UP or DOWN key to select "rLS"
- press and release the SET key
- press and release the UP or DOWN key within 15 sec to set "149"

- press and release the SET key or do not operate for 15 sec: the display will show a flashing "----" for 4 sec and the HACCP LED will switch off and then the instrument will exit the procedure If the instrument does not have any alarms stored, the label "rLS" will not be displayed. 7 CALCULATING COMPRESSOR OPERATION HOURS (but EVX201) 7.1 Preliminary notes The instrument is able to store up to 9,999 hours of compressor operation, after which the number "9999" starts flashing. 7.2 Display of Compressor Operation Hours • make sure that the keyboard is not locked and that no other operation is in progress • press and hold down the DOWN key for 1 sec: the display will show the first available label • press and release the UP or down DOWN key to select "CH" • press and release the SET key. To exit the procedure press and release the SET key or do not operate for 60 sec • press and release the UP or down DOWN key until the display shows the cell temperature or do not operate for 60 sec. Alternatively: • press and release the ON/STAND-BY key. 7.3 Cancelling Compressor Operation Hours · Make sure that the keyboard is not locked and that no other procedure is in progress • press and hold down the **DOWN** key for 1 sec: the display will show the first available label • press and release the UP or DOWN key to select "rCH" press and release the SET key press and release the UP or DOWN key within 15 sec to set "149" ${\scriptstyle \bullet}$ press and release the ${\scriptstyle \textbf{SET}}$ key or do not operate for 15 sec: the display will show a flashing "----" for 4 sec then the instrument will exit the procedure WARNING LIGHTS AND DIRECTIONS 8 8.1 Warning lights LED MEANING ₩8 compressor LED light if the LED is on, then the compressor is on if the LED is flashing: • the working setpoint is in the process of being changed (via the procedure described in paragraph 5.2) compressor protection operation in progress: parameters C0, C1, C2 parameter i7 (EVX204, EVX214, EVX205 and EVX215 only) Defrost LED -If it is on: defrosting is in progress if it is flashing predripping in progress parameter d16 (but EVX201) defrosting required but a compresser protection operation is in progress: parameters C0, C1 and C2 (but EVX201) dripping in progress parameter d7 (but EVX201) heating of coolant liquid in progress: parameter d15 (but EVX201) Evaporator fan LED light If it is on, the evaporator fan is on (but EVX201) If it is flashing, the evaporator fan is disactivated parameter F3 (but EVX201) Cell light LED G If it is on, the cell light has been switched on manually (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 0) if it is flashing, the cell light has been switched on by remote: parameter i0 (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 0) NF/ Multifunction LED light If it is on: the demisting resistors are switched on (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 1) the auxiliary output has been manually switched on (EVX204, EVX214, EVX205 and EVX215 only and pro-
 - (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 2)
 the door resistors will be switched on (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 4)
 - the evaporator valve will be switched on (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter u1 and/or parameter u11 is set to 5)
 - the condenser fan will be switched on (EVX204, EVX214, EVX205 and EVX215 only and provided that parameter
 - u1 and/or parameter u11 is set to 6)

	if it is flashing:
	the auxiliary output has been switched on remotely:
	- parameter i5 (EVX204, EVX214, EVX205 and EVX215
	only and provided that parameter u1 and/or parameter
	u11 is set to 2)
	• a delay in switching off the condenser fan is in progress:
	- parameter F12 (EVX204, EVX214, EVX205 and EVX215
	only and provided that parameter u1 and/or parameter
	u11 is set to 6)
Θ	Clock LED
	if flashing, the day and real time are in the process of being
	changed (EVX214 and EVX215 only)
НАССР	HACCP LED
	if it is on, all information regarding HACCP alarms has not
	been displayed
	if it is flashing, the instrument 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 HACCP alarms has been can-
	celled
Ô	Energy Saving LED
0	if it is on, the Energy Saving function is running (but EVX201)
	- parameters r4, F13, F14, i5, i10, HE1 and HE2
2	maintenance LED
	if on, compressor maintenance is required (but EVX201):
	- parameter C10
₽•	Overcooling LED
0	if on, the Overcooling function is on progress
	- parameters r5 and r6
-	
Δ	Alarms LED
	if on, an alarm or error is in progress
°C	Celsius grade LED
	if on, the temperatures will be displayed using the Celsius
	grade unit of measurement:
	- parameter P2
°F	Fahrenheit grade LED
F	
	if on, the temperatures will be displayed using the Fahren-
	heit grade unit of measurement:
	- parameter P2
(I)	on/stand-by LED
-	if on, the instrument is in stand-by mode
8.2	Signal Descriptions/Explanations
CODE	MEANING
rhL	operation for a low percentage of relative humidity in
	progress
rhH	operation for a high percentage of relative humidity in
mn	
	progress
Loc	the keyboard is locked:
Loc	
Loc	the keyboard is locked:
Loc	the keyboard is locked: - see paragraph 4.13
Loc	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked:
Loc 9	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3
	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available
9 9.1	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING
9 9.1	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms)
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions:
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: • check the cell temperature (EVX201 only)
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions:
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9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: • check the cell temperature (EVX201 only) • check the temperature associated with the alarm (but EVX201) • refer to:
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: • check the cell temperature (EVX201 only) • check the temperature associated with the alarm (but EVX201) • refer to: - parameters A1 and A2 (EVX201 only)
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201)
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences:
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only)
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201)
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: • check the cell temperature (EVX201 only) • check the cell temperature associated with the alarm (but EVX201) • refer to: - parameters A1 and A2 (EVX201 only) • see parameters A0, A1 and A2 (but EVX201) Main consequences: • the instrument will store the alarm (EVX201 only) • if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) • the alarm output will be activated (provided that param-
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3)
9 9.1 CODE	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: • check the cell temperature (EVX201 only) • check the cell temperature associated with the alarm (but EVX201) • refer to: - parameters A1 and A2 (EVX201 only) • see parameters A0, A1 and A2 (but EVX201) Main consequences: • the instrument will store the alarm (EVX201 only) • if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) • the alarm output will be activated (provided that param-
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3)
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms)
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions:
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions: - check the cell temperature - refer to:
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: • check the cell temperature (EVX201 only) • check the temperature associated with the alarm (but EVX201) • refer to: - parameters A1 and A2 (EVX201 only) • refer to: - parameters A0, A1 and A2 (but EVX201) Main consequences: • the instrument will store the alarm (EVX201 only) • the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions: • check the cell temperature • refer to: - parameters A4 and A5
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions: - check the cell temperature - refer to: - parameters A4 and A5 Main consequences:
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3] Maximum temperature alarm (HACCP alarms) Solutions: - check the cell temperature - refer to: - parameters A4 and A5 Main consequences: - the instrument will store the alarm
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions: - check the cell temperature - refer to: - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- - the alarm output will be activated (provided that param- - the instrument will store the alarm
9 9.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- eter to: - parameters A4 and A5 Main consequences: - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3)
99.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature - refer to: - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Door microswitch input alarm (HACCP alarms)
9 9.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- eter to: - parameters A4 and A5 Main consequences: - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3)
9 9.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS ALARMS MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature - refer to: - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Door microswitch input alarm (HACCP alarms)
9 9.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - check the temperature associated with the alarm (but EVX201) - check the temperature associated with the alarm (but EVX201) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions: - check the cell temperature - refer to: - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Door microswitch input alarm (HACCP alarms) Solutions:
9 9.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions: - check the cell temperature - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Door microsvitch input alarm (HACCP alarms) Solutions: - verify the cause of the input activation - see parameters i0, i1 and i4
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9 9.1 CODE AL	the keyboard is locked: - see paragraph 4.13 the working setpoint is blocked: - parameter r3 the operation requested is not available ALARMS Alarms MEANING Minimum alarm temperatures (HACCP alarms) Solutions: - check the cell temperature (EVX201 only) - check the temperature associated with the alarm (but EVX201) - refer to: - parameters A1 and A2 (EVX201 only) - see parameters A0, A1 and A2 (but EVX201) Main consequences: - the instrument will store the alarm (EVX201 only) - if parameter A0 is set to 0, the instrument will store the alarm (but EVX201) - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Maximum temperature alarm (HACCP alarms) Solutions: - check the cell temperature - refer to: - parameters A4 and A5 Main consequences: - the instrument will store the alarm - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Door microsvitch input alarm (HACCP alarms) Solutions: - verify the cause of the input activation - see parameters 10, i1 and i4 Main consequences: - the effect established with parameter i0 - if parameter is set to 1, the instrument will store the alarm, provided parameter i2 is not set to -1 - the alarm output will be activated (provided that param- eter u1 and/or parameter u11 is set to 3) Power supply interruption alarm (HACCP alarms ; only EVX214 and EVX215) Solutions:

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• the evaporator valve will be disconnected (EVX204, EVX214, EVX205 and EVX215 only and provided pa-

rameter u1 and/or parameter u11 is set to 5)

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	• press a key to restore normal display	Pr2	Evaporator probe error (but EVX201)
	Main consequences:		Solutions:
	• if the power supply interruption lasts longer than the time established with parameter A10, the instrument will		 the same as the preceeding case but with respect to the evaporator probe
	store the alarm		Main consequences:
	• the alarm output will be activated (provided that param-		• if parameter P3 is set to 1, the defrosting period will last
	eter u1 and/or parameter u11 is set to 3)		for the amout of time set with parameter 3
iA	Multifunction input alarm (only EVX204, EVX214, EVX205		• if parameter P3 is set to 1 and parameter d8 is set to 2 or
	and EVX215)		to 3, the instrument will operate as if parameter d8 were
	Solutions:		set to 0
	• verify the cause of input activation		• if parameter F0 is set to 3 or 4, the instrument will operate
	parameters i5 and i6 are seen Main consequences:		as if the parameter were set to 2 • the alarm output will be activated (provided that param-
	 the effect established with parameter i5 		eter u1 and/or parameter u11 is set to 3)
	the alarm output will be activated (provided that param-	Pr3	Condenser probe error (EVX204, EVX214, EVX205 and
	eter u1 and/or parameter u11 is set to 3)		EVX215 only)
iSd	Pressure switch alarm (only EVX204, EVX214, EVX205 and		Solutions:
	EVX215)		• the same as the preceeding case but with respect to the
	Solutions:		condenser probe
	• verify the cause of input activation		Main consequences:
	 parameters i5, i6, i7, i8 and i9 are seen switch off and ro start the instrument or surport the 		 condenser overheated alarm (code "COH") will not be astivated
	 switch off and re-start the instrument or suspend the power supply 		activatedcompressor blocked by condenser temperature alarm
	Main consequences:		(code " CSd ") will never be activated
	• the regulators will switch off		• the alarm output will be activated (provided that param-
	• the alarm output will be activated (provided that param-		eter u1 and/or parameter u11 is set to 3)
	eter u1 and/or parameter u11 is set to 3)		• if parameter u1 and/or parameter u11 is set to 6, the
сон	Condenser overheated alarm (only EVX204, EVX214,		condenser fan will operate in parallel with the condenser
	EVX205 and EVX215)	rtc	Clock error (EVX214 and EVX215 only)
	Solutions:		Solutions:
	check the temperature of the condenserparameter C6 is seen		 re-set the day and real time Main consequences:
	Main consequences:		 if parameter d8 is set to 4, the instrument will operate as
	•the alarm output will be activated (provided that param-		if the parameter were set to 0
	eter u1 and/or parameter u11 is set to 3)		the HACCP function will not provide information regard-
	• if parameter u1 and/or parameter u11 is set to 6, the		ing the date and hour in which the alarm was signaled
	condenser fan will be switched on		• the Energy Saving function will not be available in real
CSd	Compressor blocked alarm (only EVX204, EVX214,		time
	EVX205 and EVX215)		 the alarm output will be activated (provided that param-
	Solutions:	V//= === the	eter u1 and/or parameter u11 is set to 3)
	 check the condenser temperature parameter C7 seen 	1	e problem that caused the alarm disappears, the instrument o normal operation, with the exception of the clock error
	switch off and re-start the instrument: if when the instru-		c") which requires that the date and hour be set.
	ment is switched back on, the temperature of the con-		ECHNICAL DATA
	denser is still higher than that established in parameter	11.1 1	echnical data
	C7, disconnect the power supply and clean the con-	Case: w	ithout cover.
	denser	1	protection grade: IP 00.
	Main consequences:	1	tions: 6.3 mm faston connectors (0.248 in, power and
	• the compresser and the evaporator fan will be switched off		screw terminal board (inputs), 6-outlet connector (serial port). ng temperature: from 0 to 55 °C (from 32 to 131 °F, 10
	the alarm output will be activated (provided that param-	-	tive humidity without condensaton).
	eter u1 and/or parameter u11 is set to 3)		230 VCA, 50/60 Hz or 115 VCA, 50/60 Hz.
dFd	Defrosting alarm switched off because maximum time has		ation of clock data in the absence of power (EVX214
	been reached (but EVX201)	and EV	X215 only): 24 hr fully-charged battery.
	Solutions:	Battery	recharge time (EVX214 and EVX215 only): 2 min
		without in	
	• verify that the evaporator probe is intact		nterruption (the battery is recharged by the instrument's power
	 see parameters d2, d3 and d11 	supply).	
	 see parameters d2, d3 and d11 press a key to restore normal display 	Alarm b	uzzers: upon request in EVX201 and EVX203; built-in for
	 see parameters d2, d3 and d11 press a key to restore normal display Main consequences: 	Alarm b EVX204,	uzzers: upon request in EVX201 and EVX203; built-in for EVX214, EVX205 and EVX215).
ien the	 see parameters d2, d3 and d11 press a key to restore normal display Main consequences: the instrument will continue to function normally 	Alarm b EVX204, EVX201	uzzers: upon request in EVX201 and EVX203; built-in for EVX214, EVX205 and EVX215). measure inputs: 1 (cell probe) for NTC probe.
	 see parameters d2, d3 and d11 press a key to restore normal display Main consequences: 	Alarm b EVX204, EVX201	uzzers: upon request in EVX201 and EVX203; built-in for EVX214, EVX205 and EVX215). measure inputs: 1 (cell probe) for NTC probe. measure inputs: 2 (cell probe and evaporator probe) for
urns to	 see parameters d2, d3 and d11 press a key to restore normal display Main consequences: the instrument will continue to function normally problem that caused the alarm disappears, the instrument 	Alarm b EVX204, EVX201 EVX203 the NTC	uzzers: upon request in EVX201 and EVX203; built-in for EVX214, EVX205 and EVX215). measure inputs: 1 (cell probe) for NTC probe. measure inputs: 2 (cell probe and evaporator probe) for
urns to ne pow ressing	see parameters d2, d3 and d11 press a key to restore normal display Main consequences: the instrument will continue to function normally problem that caused the alarm disappears, the instrument normal function, with the exception of the following alarms: ver supply interruption alarm (code "PF") which requires the of a key	Alarm b EVX204, EVX201 EVX203 the NTC EVX204 (cell prob	 wzzers: upon request in EVX201 and EVX203; built-in for EVX214, EVX205 and EVX215]. measure inputs: 1 (cell probe) for NTC probe. measure inputs: 2 (cell probe and evaporator probe) for probe. EVX214, EVX205 and EVX215 measure inputs: 3 re, evaporator probe and condenser probe) for NTC probe.
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urns to ne pow ressing ressure f the in ompres thich re uspensi efrostii eached	• see parameters d2, d3 and d1 1 • press a key to restore normal display Main consequences: • the instrument will continue to function normally problem that caused the alarm disappears, the instrument normal function, with the exception of the following alarms: ver supply interruption alarm (code "PF") which requires the of a key switch alarm (code "ISd") which requires the switching off strument or the temporary suspension of the power supply aquires the switching off of the instrument or the temporary ion of the power supply ng alarm swiched off because maximum time has been (code "dFd") which requires the pressing of a key. ERRORS Errors MEANING Cell probe error Solutions: verify that the probe is a type NTC verify that the probe is intact verify the instrument-probe connection encest	Alarm b EVX204, EVX201 EVX203 the NTC EVX204 (cell prob EVX204 (cell prob EVX204 (cor mi closed cc Measure Resolut EVX201	 uzzers: upon request in EVX201 and EVX203; built-in for EVX214, EVX205 and EVX215). measure inputs: 1 (cell probe) for NTC probe. e measure inputs: 2 (cell probe and evaporator probe) for probe. c. EVX214, EVX205 and EVX215 measure inputs: 3 e, evaporator probe and condenser probe) for NTC probe. and EVX203 digital inputs: 1 (door microswitch) for / open /normally closed contact (free contact, /, open /normally closed contact (free contact, /, eVX214, EVX205 and EVX215 digital inputs: 2 croswitch and multifunction) for normally open/normally intact (free contact, 5 V 1 mA). ment field: from -40 to 105 °C (from -40 to 220 °F). ion: 0.1 °C/1 °F. digital outputs: 1 relay:
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EVX204 and EVX214 digital outputs: 4 relays:

- compressor relay: 30 A res. @ 250 VCA (normally open contact)
 - defrosting relay: 8 A res. @ 250 VCA (exchange contact)
 - evaporator fan relay: 8 A res. @ 250 VCA (normally open contact)
 - fourth output relay: from 8 A res. @
- 250 VCA (normally open contact).

The maximum load current allowed is 16 A. EVX205 and EVX215 digital outputs: 5 relays:

• compressor relay: 30 A res. @ 250

- VCA (normally open contact)
- defrosting relay: 8 A res. @ 250 VCA (exchange contact)
- evaporator fan relay: 8 A res. @ 250 VCA (normally open contact)
- fourth output relay: from 8 A res. @ 250 VCA (normally open contact)
- fifth output relay: from 5 A res. @ 250 VCA (normally open contact).
- The maximum load current allowed is 16 A.

Serial port: port for communicating with the monitoring system (via serial interface, via TTL, with a MODBUS communications protocol) or via programming key.

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2.1		CING SE		AND CON	FIGURAT	ION PAR	AMETERS	
	MIN.	MAX.	UM	EVX201	EVX203			WORKING SETPOINT
	r 1	r2	°C/°F (1)	2.0	-2.0	-18.0	-18.0	working setpoint; see also r0
2 .2 R.	Config MIN.	guratio MAX.	n paramet		EVX203	h waaye		
K.	r 1	r2	°C/°F (1)	EVX201 2.0	-2.0	-18.0	-18.0	WORKING SETPOINT working setpoint; see also r0
R.	MIN.	MAX.	UM	EVX201	EVX203			MEASUREMENT INPUTS
11	-25.0	25.0	°C/°F (1)	0.0	0.0	0.0	0.0	offset cell probe
12	-25.0	25.0	°C/°F(1)	not avail.	0.0	0.0	0.0	offset evaporator probe
\3	-25.0	25.0	°C/°F(1)	not avail	not avail.	0.0	0.0	offset condenser probe
	0	1		1	1	1	1	Celsius degree decimal point (for size displayed during normal operation)
								1 = YES
	0	1		0	0	0	0	temperature unit of measurement (2) 0 = °C 1 = °F
	0	2		not avail.	1	1	1	evaporator probe function
	ľ	-						0 = probe absent
								1 = defrosting probe and probe for evaporator fan thermostatisation
								2 = probe for evaporator fan thermostatisation
	0	1		not avail.	not avail.	1	1	enabling of condenser probe
								1 = YES
0	0	250	ds	5	5	5	5	delay in display of variations in temperature detected by the probes
R.	MIN.	MAX.	UM	EVX201	EVX203			MAIN REGULATOR
	0.1	15.0 r2	°C/°F(1)	2.0	2.0	2.0	2.0	working setpoint differential
	-99.0 r1	r2 99.0	°C/°F(1) °C/°F(1)	-50.0	-50.0	-50.0	-50.0	minimum working setpoint maximum working setpoint
	0	1		0	0	0	0	locking of working setpoint calibration (using the procedure described in paragraph 5.2)
	ľ	ľ	-	0				1 = YES
	0.0	99.0	°C/°F(1)	not avail.	not avail.	0.0	0.0	increase in temperature during Energy Saving function; see also i5, i10, HE1 and HE2
	0.0	99.0	°C/°F(1)	0.0	0.0	0.0	0.0	decrease in temperature during Overcooling function; see also r6
	0	240	min	30	30	30	30	duration of Overcooling function; see also r5
	0.0	99.0	°C/°F (1)	not avail.	10.0	10.0	10.0	minimum difference "cell temperature - working setpoint" (when the instrument switches on) such as to provoke the exclusion o
					-			consequent value of the evaporator temperature among the ones used for the calculation of the relative average (for the defrost activa
								only if d8 = 3); also look at d17 (3)
	MIN.	MAX.	UM	EVX201	EVX203	EVX204/5	EVX214/5	COMPRESSROR PROTECTION SYSTEM
	0	240	min	0	0	0	0	delay in switching on of compressor after the insturment switches on (3) minimum time between two consecutive compressor start
	0	240	min	5	5	5	5	also delay in compressor start-up after conclusion of cell probe error (code "Pr1") (4) (5)
	0	240	min	3	3	3	3	minimum duration of compressor switch off time (4)
	0	240	sec	0	0	0	0	minimum duration of compressor switch on time
	0	240	min	10	10	10	10	duration of compressor switch off during cell probe error (code "Pr1"); see also C5
	0	240	min	10	10	10	10	duration of compressor switch on during cell probe error (code " Pr1 "); see also C4
	0.0	199.0	°C/°F(1) °C/°F(1)	not avail.	not avail. not avail.	90.0	80.0 90.0	condenser temperature is higher than that at which the condenser overheating alarm is activated (code " COH ") (6)
	0.0	199.0	min	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") compressor alarm delay locked (code "CSd") (7)
0	0	9.999		not avail. not avail.	0	0	0	number of operating hours is higher than the limit at which the need for maintenance is signaled.
0	ľ	1.111		not avaii.	0		0	0 = function absent
۲.	MIN.	MAX.	UM	EVX201	EVX203	FVX204/5	FVX214/5	DEFROSTING
	0	99	hr	8	8	8	8	if d8 = 0, 1 or 2, defrosting interval (8)
								0 = interval defrosting will never be activated
								if d8 = 3, maximum defrost interval
	0	2		not avail.	0	0	0	type of defrosting
								0 = <u>ELECTRIC</u> - during defrosting the compressor will remain off and the defrosting output will be activated; evaporator fan activity
								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 ac
								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 re
	00.0	00.0	°C/°F (1)	not avail.	2.0	2.0	2.0	disactivated; evaporator fan activity will depend on parameter F2
	-99.0 0	99.0 99	min	not avail. 30	2.0 30	2.0	2.0	temperature at end of defrosting (only if P3 = 1); see also d3 se P3 = 0 or 2, defrosting duration
	ľ	/ 7	pana -	50	50	50		se P3 = 0 of 2, derosting duration se P3 = 1, maximum defrosting duration; see also d2
								0 = defrosting will not be activated
	0	1		0	0	0	0	defrosting when instrument is switched on (only if $d8 = 0, 1, 2 \text{ or } 3$) (3)
								1 = YES
	0	99	min	0	0	0	0	if d4 = 0, minimum time between switching on of instrument and activation of defrosting; see also i5 (3)
								if $d4 = 1$, delay in activation of defrosting after instrument is switched on ; see also i5 (3)
	0	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 setpoint + r0", at most "working setpoi
								setpoint + r0"; if at the time of defrosting activation, the cell temperature is higher than the "working setpoint +
		1.5			-	-	2	at most the cell temperature when defrosting is activated
	0	15	min	not avail.	2	2	2	dripping duration (during dripping the compressor will remain switched off and the defrosting output will remain disactivate
	0	4		0	0	0	0	$d16 = 0$, evaporator fan activity will depend on parameter F2; if $d16 \neq 0$, the evaporator fan will remain switched off)
	0	4		0	0	0	0	defrosting activation methods
								0 = <u>AT INTERVALS</u> - defrosting will be activated once the instrument has altogether been running for time d0 1 = <u>AT INTERVALS</u> - defrosting will be activated once the compressor has altogether been switched on for time d0
								2 = AT INTERVALS - defrosting will be activated once the evaporator temperature has altogether been below temperature d9 for time
								(visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) (10)
								3 = ADAPTABLE - defrosting will be activated when one of the following conditions is present (visible in EVX203, EVX204, EVX214, EV.
								and EVX215 only; also look at d0) (10):
								- condition 1: the evaporator temperature will be below temperature d22 and the compressor will altogethe
								switched on for time d18
								- condition 2: the evaporator temperature will fall below temperature d19
								4 = IN REAL TIME - defrosting will be activated at the times established in parameters Hd1 Hd6 (visible in EVX214 and EVX215 or
	-99.0	99.0	°C/°F (1)	not avail.	0.0	0.0	0.0	evaporator temperature is higher than that at which the defrost interval counter is suspended (only if $d8 = 2$)
	0	1		not avail.	0.0	0.0	0.0	defrosting alarm switches off once maximum time limit has been reached (code " dFd "; only if P3 = 1
								and in absence of an evaporator probe (code "Pr2")
								I = YES
5	0	99	min	not avail.	0	0	0	minimum time that the compressor must be switched on before defrosting can be activated (only if d1 = 1) (11)
6	0	99	min	not avail.	0	0	0	predripping duration (during predripping the compressor will remain switched off, the defrosting output will be activated and
	1	1	1	1	1	1	1	evaporator fan will remain switched off

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d17	1	10		not avail.	1	1	1	number of evaporator temperature values used for the calculation of the relative average (for the defrost activation; only if d8 = 3); also look
d18	0	3,000	min	not avail.	40	40	40	at r7, i11 and i12 defrosting interval (only if d8 = 3 and for condition 1)
aro	ľ	5,000		not treat.	10	10		0 = defrosting for condition 1 will never be activated
d19	0.0	40.0	°C/°F (1)	not avail.	3.0	3.0	3.0	evaporator temperature above which the defrost is activated (relative to the evaporator temperatures average, or "evaporator temperatures
d20	0	500	min	pot pupil	180	180	100	average - d19") (only if d8 = 3 and for condition 2); also look at d17
azu	0	500	min	not avail.	180	180	180	minimum consecutive time the compressor must be switched on such as to provoke the defrost activation 0 = the defrost will never be activated because the compressor has been switched on
d21	0	500	min	not avail.	200	200	200	minimum consecutive time the compressor must be switched on after the insturment switches on (on condition that the difference "cell
							1	temperature - working setpoint" is higher temperature r7) and after function Overcooling is activated such as to provoke the defrost
							1	activation
d22		10.0	9C/9E/11	and available	2.0	2.0	2.0	0 = the defrost will never be activated because the compressor has been switched on
uzz	0.0	10.0	°C/°F(1)	not avail.	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 $d8 = 3$ and for condition 1); also look at $d17$
d23	0.0	10.0	°C/°F (1)	not avail.	1.0	1.0	1.0	evaporator temperatures average increase during function Energy Saving (for defrost activation; only if d8 = 3); also look at d17
PAR.	MIN.	MAX.	UM	EVX201	EVX203	EVX204/5	EVX214/5	TEMPERATURE ALARMS
A0	0	1		not avail.	0	0	0	temperature associated with the minimum temperature alarm (code "AL")
							1	0 = cell temperature 1 = evaporator temperature (12)
A1	-99.0	99.0	°C/°F (1)	-10.0	-10.0	-10.0	-10.0	temperature below that at which the minimum temperature alarm is activated (code "AL"); see also A0, A2 and A11
A2	0	2		1	1	1	1	type of minimum temperature alarm (code "AL")
							1	0 = alarm absent
							1	1 = relative to working setpoint (that is "working setpoint - A1"; consider A1 without sign)
A4	-99.0	99.0	°C/°F (1)	10.0	10.0	10.0	10.0	2 = absolute (that is A1) temperature higher than that at which the maximum temperature alarm is activated (code " AH "); see also A5 and A11
A5	0	2		10.0	10.0	10.0	10.0	type of maximum temperature alarm (code "AH")
							1	0 = alarm absent
							1	1 = relative to working setpoint (that is "working setpoint + A4"; consider A1 without sign))
		2.4.5				L		2 = absolute (that is A4)
A6	0	240	min	120 15	120	120	120	delay in maximum temperature alarm (code "AH") after the instrument is switched on (3)
A7 A8	0	240	min min	15	15	15	15	temperature alarm delay (code "AL" and code "AH") delay in maximum temperature alarm (code "AH") following the conclusion of defrosting (in EVX201 only) and following the conclusion
. 10	ľ	- 10						of evaporator fan (in EVX203, EVX204, EVX214, EVX205 and EVX215 only) [13]
A9	0	240	min	15	15	15	15	delay in maximum temperature alarm (code "AH") following the disactivation of the door microswitch input (14)
A10	0	240	min	not avail.	not avail.	not avail.	1	duration of interruption in the power supply that occurs when the instrument has been running for long enough to cause the storage of
A 1 1	0.1	15.0	9C/9E/11	2.0	2.0	2.0	2.0	the power interruption alarm when the power supply is restored. (code " PF ") (15)
A11 A12	0.1	15.0	°C/°F (1)	not avail.	not avail.	not avail.	2.0	differential of parameters A1 and A4 kind of signal for power interruption alarm (code "PF"); also look at A10
7112	ľ	2		not treat.	noc civell.	not treat.	· ·	0 = the alarm will not be signalled
							1	1 = the display will show the code "PF" flashing and the buzzer will be activated
							ĺ	2 = the display will show the code "PF" flashing and the buzzer will be activated (this last on condition that the power interruption duration
DAD	A 415 L			510/201	510/202	5 0/20 4 /5	5.0/214/5	is higher than time A10)
PAR. F0	MIN.	MAX.	UM	EVX201 not avail.	EVX203	EVX204/5	EVX214/5	EVAPORTOR FAN evaporator fan activity during normal operation
10		5		not avair.		'	('	0 = switched off
							ĺ	1 = switched on; see also F13, F14 and i10
							ĺ	2 = in parallel with the compressor; see also F9, F13, F14 and i10
							ĺ	3 = dependent on F1 (16)
							ĺ	4 = switched off if the compressor is switched off, dependent on F1 if the compressor is switched on; see also F9 (16)
F1	-99.0	99.0	°C/°F (1)	not avail.	-1.0	-1.0	-1.0	5 = dependent on F6; see also F9 evaporator temperature above the limit at which the evaporator fan is switched off (only if F0 = 3 or 4); see also F8
F2	0	2		not avail.	0	0	0	evaporator fan activity during defrosting and dripping
							1	0 = switched off
							1	1 = switched on (setting parameter d7 to 0 is recommended)
F3	0	15	min	not avail.	2	2	2	2 = dependent on F0 maximum duration of evaporator fan disactivation; see also F7 (during evaporator fan desactivation the compressor can be switched on,
15		15		not avair.	2	2	2	the defrosting output will remain disactivated and the evaporator fan will remain switched off)
F4	0	240	sec	not avail.	60			
						60	60	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is
F5	0	240				60	60	5 1
F6	1	240	sec	not avail.	10	60 10	60 10	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is
F0	0	240				10	10	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5)
	0	1	sec	not avail. not avail.	10			time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17)
	0	1				10	10	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5)
F7	0-99.0	240 1 99.0				10	10	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5
	-99.0	1 99.0	°C/°F (1)	not avail. not avail.	0	10 0 5.0	10 0 5.0	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) $0 = \underline{LOW RELATIVE HUMIDITY}$ - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 $1 = \underline{HIGH RELATIVE HUMIDITY}$ - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3
F8	-99.0 0.1	1 99.0 15.0	°C/°F (1) °C/°F (1)	not avail. not avail. not avail.	0	10 0 5.0 2.0	10 0 5.0 2.0	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) $0 = \underline{LOW RELATIVE HUMIDITY}$ - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 $1 = \underline{HIGH RELATIVE HUMIDITY}$ - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential
F8 F9	-99.0 0.1 0	1 99.0 15.0 240	•C/°F (1) •C/°F (1) sec	not avail. not avail. not avail. not avail.	0 5.0 2.0 not avail.	10 0 5.0 2.0 0	10 0 5.0 2.0 0	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 $1 = \frac{HIGH RELATIVE HUMIDITY}{12}$ - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5)
F8	-99.0 0.1	1 99.0 15.0	°C/°F (1) °C/°F (1)	not avail. not avail. not avail.	0	10 0 5.0 2.0	10 0 5.0 2.0	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = HIGH RELATIVE HUMIDITY - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided
F8 F9	-99.0 0.1 0	1 99.0 15.0 240	•C/°F (1) •C/°F (1) sec	not avail. not avail. not avail. not avail.	0 5.0 2.0 not avail.	10 0 5.0 2.0 0	10 0 5.0 2.0 0	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 $1 = \frac{HIGH RELATIVE HUMIDITY}{12}$ - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5)
F8 F9 F11 F12 F13	-99.0 0.1 0 0.0 0 0	1 99.0 15.0 240 99.0 240 240	°C/°F (1) °C/°F (1) sec °C/°F (1)	not avail. not avail. not avail. not avail. not avail.	0 5.0 2.0 not avail. not avail. 5	10 0 5.0 2.0 0 15.0 30 5	10 0 5.0 2.0 0 15.0 30 5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) $0 = \underline{LOW}$ RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 $1 = \underline{HIGH}$ RELATIVE HUMIDITY - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided the compressor is switched on); see also F12 [18] delay in switching off of the condenser fan following the switching off of the condenser (only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and 110 (only if F0 = 1 or 2)
F8 F9 F11 F12 F13 F14	-99.0 0.1 0.0 0.0 0 0 0	1 99.0 15.0 240 99.0 240 240 240	°C/°F(1) °C/°F(1) sec °C/°F(1) sec min min	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 5.0 2.0 not avail. not avail. 5 5	10 0 5.0 0 15.0 30 5 5	10 0 5.0 0 15.0 30 5 5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) $0 = \underline{LOW RELATIVE HUMIDITY}$ - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 $1 = \underline{HIGH RELATIVE HUMIDITY}$ - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided the compressor is switching off of the condenser fan following the switching off of the condenser (only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and 110 (only if F0 = 1 or 2) time the evaporator fan remains turned on during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2)
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) $0 = \underline{LOW RELATIVE HUMIDITY}$ - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 $1 = \underline{HIGH RELATIVE HUMIDITY}$ - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided the compressor is switched on); see also F12 (18) delay in switching off of the condenser fan following the switching off of the condenser (only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned of during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) DIGITAL INPUTS
F8 F9 F11 F12 F13 F14	-99.0 0.1 0.0 0.0 0 0 0	1 99.0 15.0 240 99.0 240 240 240 240	°C/°F(1) °C/°F(1) sec °C/°F(1) sec min min	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 5.0 2.0 not avail. not avail. 5 5	10 0 5.0 0 15.0 30 5 5	10 0 5.0 0 15.0 30 5 5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and 110 (only if F0 = 1 or 2) time the evaporator fan remains turned on during function Energy Saving; see also F13 and 110 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = HIGH RELATIVE HUMIDITY - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided the compressor is switched on]; see also F12 (18) delay in switching off of the condenser fan following the switching off of the condenser (only if F0 = 1 or 2) time the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) time the evaporator fan remains turned on during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and 110 (only if F0 = 1 or 2) time the evaporator fan remains turned on during function Energy Saving; see also F13 and 110 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = HIGH RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = HIGH RELATIVE HUMIDITY - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided the compressor is switched on); see also F12 (18) delay in switching off of the condenser fan following the switching off of the condenser (only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and 110 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated (19) 2 = the evaporator fan will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated (19) 2 = the evaporator fan will be switched
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = HIGH RELATIVE HUMIDITY - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided the compressor is switched on); see also F12 (18) delay in switching off of the condenser fan following the switching off of the condenser (only if f0 = 1 or 2) time the evaporator fan remains turned off during function Energy Saving; see also F14 and 110 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched on (only if u1 and/or u11 = 0, until the input is disactivated) (only visible in EVX204, EVX214, EVX205
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F; only if u1 and/or u11 = 6 and provided the compressor is switched on); see also F12 (18) delay in switching off of the condenser fan following the switching off of the condenser (only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated (19) 2 = the evaporator fan will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched on (only if u1 and/or u11 = 0, until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215)
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) (operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F; only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) time the evaporator fan remains turned on during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched on (only if u1 and/or u11 = 0, until the input is disactivated) and the cell light will be switched on (only if u1 and/or u11 = 0, until the input is disactivated) and the cell light will be switched on (only if u1 and/or u11 = 0, until the input is disactivated) and the cell light will be switched on (only if u1 and/or u11 = 0, until the input is disactivate
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F; only if u1 and/or u11 = 6 and provided the compressor is switched on); see also F12 (18) delay in switching off of the condenser fan following the switching off of the condenser (only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated (19) 2 = the evaporator fan will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched on (only if u1 and/or u11 = 0, until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215)
F8 F9 F11 F12 F13 F14 PAR. 10	-99.0 0.1 0 0.0 0 0 0 0 0 0 0 0 0	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. EVX201 1	0 2.0 not avail. not avail. 5 5 EVX203 2	10 0 5.0 0 15.0 30 5 5 EVX204/5 3	10 0 5.0 0 15.0 30 5 EVX214/5 3	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) (17) 0 = LQW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = HIGH RELATIVE HUMIDITY - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"]; see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and 110 (only if F0 = 1 or 2) DIGITAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched off (at most for time i3 or until the input is disactivated) and the cell light will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215) 4 = the compressor and evaporator fan will be switched off (at most for time i3 or until the input is disactivated) and the cell light will be switched off (at most for time i3 or until the input is disactivated) for hy visible in EVX204, EVX214, EVX205 and EVX
F8 F9 F11 F12 F13 F14 PAR.	-99.0 0.1 0 0.0 0.0 0 0 0 0 0 0 MIN.	1 99.0 15.0 240 99.0 240 240 240 240	• C/*F (1) • C/*F (1) • sec • C/*F (1) sec min min UM	not avail. not avail. not avail. not avail. not avail. not avail. not avail. not avail.	0 2.0 not avail. not avail. not avail. 5 5 EVX203	10 0 5.0 0 15.0 30 5 5 5 VX204/5	10 0 5.0 2.0 0 15.0 30 5 5 EVX214/5	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) (17) 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 (1 = <u>HIGH RELATIVE HUMIDITY</u>) - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 and F3 (and F1 = <u>HIGH RELATIVE HUMIDITY</u>) - the evaporator fan si disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 and F1 differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) (2 condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6 and provided the compressor is switched on]; see also F12 [18] (2 delay in switching off of the condenser fan following the switching off of the condenser (only if F0 = 1 or 2) (2 me the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) (2 me the evaporator fan remains turned off at most for time i3 or until the input is disactivated (19) (2 = the evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX203, EVX204, EVX214, EVX205 and EVX215, CVX214, EVX205 and EVX215 only) (1 and/or u11 = 0, until the input is disactivated) (only visible in EVX203, EVX204, EVX214, EVX205 and EVX215, CVX214, E
F8 F9 F11 F12 F13 F14 PAR. 10	-99.0 0.1 0 0.0 0 0 0 0 0 0 0 0 0	1 99.0 15.0 240 99.0 240 240 240 240	• • C/* F (1) • C/* F (1) sec • C/* F (1) sec min UM 	not avail. not avail. not avail. not avail. not avail. not avail. not avail. EVX201 1	0 2.0 not avail. not avail. 5 5 EVX203 2	10 0 5.0 0 15.0 30 5 5 EVX204/5 3	10 0 5.0 0 15.0 30 5 EVX214/5 3	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) [17] 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"]; see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor [only if F0 = 2, 4 and 5] condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and i10 (only if F0 = 1 or 2) time the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) EVALUATE. INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched off (at most for time i3 or until the input is
F8 F9 F11 F12 F13 F14 PAR. i0	-99.0 0.1 0 0 0 0 0 0 0 0 0 0 0 0	1 99.0 240 240 240 240 240 240 5	• • C/° F (1) • C/° F (1) sec • C/° F (1) sec min UM 	not avail. not avail. not avail. not avail. not avail. not avail. not avail. Inot avail. EVX201 1	0 2.0 not avail. not avail. 5 EVX203 2 0	10 0 2.0 0 15.0 30 5 5 5 EVX204/5 3	10 0 2.0 0 15.0 30 5 5 5 EVX214/5 3	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off, see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off, see also F4 (only if F0 = 5) Coperation for low or high percentage of relative humidity (only if F0 = 5) Coperation for low or high percentage of relative humidity (only if F0 = 5) Coperation for low or high percentage of relative humidity (only if F0 = 5) Coperation for low or high percentage of relative humidity (only if F0 = 5) Coperation for low or high percentage of relative humidity (only if F0 = 5) Coperator temperature below limit at which the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"); see also F3 parameter F1differential delay in the switching off of evaporator fan following the switching off of the compressor (only if F0 = 2, 4 and 5) condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6) and provided the compressor is switched on]; see also F12 [18] delay in switching off of the condenser fan following the switching off of the condenser (only if U1 and/or u11 = 6); see also F11 time the evaporator fan remains turned on during function Energy Saving; see also F13 and 110 (only if F0 = 1 or 2) DifGrAL INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan levaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215) 4 = the compressor and evaporator fa
F8 F9 F11 F12 F13 F14 PAR. 10	-99.0 0.1 0 0.0 0 0 0 0 0 0 0 0 0	1 99.0 15.0 240 99.0 240 240 240 240	• • C/* F (1) • C/* F (1) sec • C/* F (1) sec min UM 	not avail. not avail. not avail. not avail. not avail. not avail. not avail. EVX201 1	0 2.0 not avail. not avail. 5 5 EVX203 2	10 0 5.0 0 15.0 30 5 5 EVX204/5 3	10 0 5.0 0 15.0 30 5 EVX214/5 3	time duration that evaporator fan is switched off during operation for a low percentage of relative humidity when the compressor is switched off; see also F5 (only if F0 = 5) time duration that evaporator fan is switched on during operation for a low percentage of relative humidity when the compressor is switched off; see also F4 (only if F0 = 5) operation for low or high percentage of relative humidity (only if F0 = 5) [17] 0 = LOW RELATIVE HUMIDITY - the evaporator fan will operate in parallel with the compressor; see also F4 and F5 1 = <u>HIGH RELATIVE HUMIDITY</u> - the evaporator fan will always be switched on evaporator temperature below limit at which the evaporator fan is disactivated (relative to working setpoint, that is "working setpoint + F7"]; see also F3 parameter F1 differential delay in the switching off of evaporator fan following the switching off of the compressor [only if F0 = 2, 4 and 5] condenser temperature above that at which the condenser fan is switched on ("F11 + 2.0 °C/4 °F, only if u1 and/or u11 = 6); see also F11 time the evaporator fan remains turned off during function Energy Saving; see also F14 and i10 (only if F0 = 1 or 2) time the evaporator fan remains turned off during function Energy Saving; see also F13 and i10 (only if F0 = 1 or 2) EVALUATE. INPUTS effect caused by the activation of the door microswitch input; see also i4 0 = no effect 1 = the compressor and evaporator fan (evaporator fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX203, EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched off (at most for time i3 or until the input is disactivated) (only visible in EVX204, EVX214, EVX205 and EVX215 only) 3 = the cell light will be switched off (at most for time i3 or until the input is

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3	- 1	120	min	15	15	15	15	maximum duration of the effect caused by activation of the door microswitch on the compressor and the evaporator fan (the evaporato fan in EVX203, EVX204, EVX214, EVX205 and EVX215 only) -1= the effect will last until the input is disactivated
4	0	1		0	0	0	0	storage of door microswitch input alarm (code "id") (20)
5	0	4		pot pupil	not avail.	2	2	1 = YES
5	0	6		not avail.	not avall.	2	2	effect caused by the activation of the multifunction input 0 = no effect 1 = <u>SYNCHRONISATION OF DEFROSTING PERIODS</u> - once time d5 has passed defrosting will be activated
								2 = ACTIVATION OF ENERGY SAVING FUNCTION - the Energy Saving function will be activated (until the input is disactived), provided th
								Overcooling function is running; see also r4
								3 = <u>ACTIVATION OF MULTIFUNCTION INPUT ALARM</u> - once time i7 has passed the display will show the flashing code "iA" and the buzze will be activated (until the input is disactivated)
								4 = ACTIVATION OF THE PRESSURE SWITCH ALARM - the compressor will be switched off, if u1 and/or u11 = 6 the condenser fan will b
								switched on, the display will show the flashing code " IA " and the buzzer will be activated (until the input is disactivated): when the input has been activated the number of times established with parameter i8 the regulators will be switched off, if u1 and/or u11 =
								the condenser fan will be switched on, the display will show the flashing code " iSd " and the buzzer will be activated (until the input
								is disactivated and the instrument is switched off and re-started or until the power supply is interrupted); see also i7 and i9
								5 = <u>SWTICHING ON THE AUXILIARY OUTPUT</u> - the auxiliary output will be switched on (only if u1 and/or u11 = 2, until the input i disactivated)
								6 = <u>SWITCHING OFF THE INSTRUMENT</u> - the instrument will be switched off (until the input is disactivated)
	0	1		not avail.	not avail.	0	0	type of mutlifunction input contact 0 = normally open (active input with closed contact)
								1 = normally closed (active input with open contact)
	0	120	min	not avail.	not avail.	0	0	if i5 = 3, multifunction input alarm delay (code " iA ")
	0	15		not avail.	not avail.	0	0	if i5 = 4, delay in compressor switching on after the disactivation of the multifunction input (21) number of multifunction input alarms (code " iA ") such to cause a pressure switch alarm (code " iSd ") (if i5 = 4)
	ľ			rioc avail.	not avail	Ū		0 = alarm absent
0	1	999 999	min min	not avail. not avail.	not avail. 0	240	240	time that must pass in absence of multifunction output alarms (code " \mathbf{iA} ") so that the alarm counter is reset (only if i5 = 4)
0	0	999		not avail.	0	0	0	time without activations of the door switch input (on condition that the cabinet temperature has reached the working setpoint) in order that function Energy Saving is activated automatically (it has effect on the evaporator fan only if $F0 = 1$ or 2)
1								0 = the function will never automatically be activated
1	0	240	S	not avail.	15	15	15	minimum time the door switch input must be activated such as to provoke the exclusion of the consequent value of the evaporate temperature among the ones used for the calculation of the relative average (for the defrost activation; only if $d8 = 3$); also look at d17
2	0	240	s	not avail.	60	60	60	minimum time the door switch input must be activated altogether such as to provoke the exclusion of the consequent value of th
								evaporator temperature among the ones used for the calculation of the relative average (for the defrost activation; only if d8 = 3); also loo at d17
3	0	240		not avail.	180	180	180	number of door switch input activations such as to provoke the defrost activation
4	0	240	min	pot pupil	32	32	32	0 = the defrost will never be activated because of the door switch input activation
4	0	240		not avail.	52	52	52	minimum duration of the door switch imput activation such as to provoke the defrost activation 0 = the defrost will never be activated because of the door switch input activation
R.	MIN.	MAX.	UM	EVX201	EVX203			DIGITAL OUTPUTS
	0	6		not avail.	not avail.	0	0	operation controlled by fourth output (22) $0 = \underline{CELL \ UGHT}$ - in this case the AUXILIARY key and parameters i0 and u2 will be activated
								1 = DEMISTER RESISTORS - in this case the AUXILIARY key and parameter u6 will be activated
								2 = <u>AUXILIARY OUTPUT</u> - in this case the AUXILIARY key and parameters i5 and u2 will be activated
								3 = <u>ALARM OUTPUTS</u> - in this case parameter u4 will be activated 4 = <u>DOOR RESISTORS</u> - in this case parameter u5 will be activated
								5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated
2	0	1		not avail.	not avail.	0	0	6 = <u>CONDENSER FAN</u> - in this case parameters P4, F11 and F12 will be activated enabling of manual switch on/switch off of the cell light or the auxiliary output when the instrument is switched o
		1		not avail.	not avail.			(only if u1 and/or u11 = 0 or 2) (23) 1 = YES
	0	1		not avail.	not avail.	1	1	enabling of alarm output disactivation with the silencing of the buzzer (only if $u1 \text{ and/or } u11 = 3$)
	-99.0	99.0	°C/°F (1)	not avail.	not avail.	-1.0	-1.0	1 = YES cell temperature below that at which the door resistors are switched on ("u5 - 2.0 °C/4 °F, only if u1 and/or u11 = 4) (6)
	1	120	min	not avail.	not avail.	5	5	operating time of demistor resistors (only if u1 and/or u11 = 1)
	0.0	99.0	°C/°F (1)	not avail.	not avail.	2.0	2.0	cell temperature below that at which the evaporator valve is disactivated (relating to the working setpoint, that is "working setpoint + $u7$ (only if $u1 \text{ and/or } u11 = 5$) (6)
	0	1		not avail.	not avail.	0	0	type of evaporator valve contact (only if u1 and/or u11 = 5)
								0 = normally open (valve active with contact closed) 1 = normally closed (valve active with contact open)
	0	1		1	1	1	1	enabling of buzzer
1	0	6			not avail.	3		1 = YES operation controlled by fifth output (22)
1	0	6		not avail.	not avail.	3	3	$0 = \underline{\text{CELL LIGHT}}$ - in this case the AUXILIARY key and parameters i0 and u2 will be activated
								1 = <u>DEMISTER RESISTORS</u> - in this case the AUXILIARY key and parameter u6 will be activated
								2 = <u>AUXILIARY OUTPUT</u> - in this case the AUXILIARY key and parameters i5 and u2 will be activated
								3 = <u>ALARM OUTPUTS</u> - in this case parameter u4 will be activated 4 = <u>DOOR RESISTORS</u> - in this case parameter u5 will be activated
								4 = <u>DOOR RESISTORS</u> - in this case parameter u5 will be activated 5 = <u>EVAPORATOR VALVE</u> - in this case parameters u7 and u8 will be activated
۶.	MIN.	MAX.	UM	EVX201	EVX203	EVX204/5	EVX214/5	4 = <u>DOOR RESISTORS</u> - in this case parameter u5 will be activated 5 = <u>EVAPORATOR VALVE</u> - in this case parameters u7 and u8 will be activated 6 = <u>CONDENSER FAN</u> - in this case parameters P4, F11 and F12 will be activated
1	MIN. 00:00	23:59	hr:min	not avail.	not avail.	00:00	00:00	4 = DOOR RESISTORS - in this case parameter u5 will be activated 5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated 6 = CONDENSER FAN - in this case parameters P4, F11 and F12 will be activated ENERGY SAVING IN REAL TIME time of activation of the Energy Saving in real time function; see also r4 and HE2
1	00:00	23:59	hr:min					4 = DOOR RESISTORS - in this case parameter u5 will be activated 5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated 6 = CONDENSER FAN - in this case parameters P4, F11 and F12 will be activated ENERGY SAVING IN REAL TIME time of activation of the Energy Saving in real time function; see also r4 and HE2 duration of the Energy Saving in real time function; see also r4 and HE1
1 2	00:00	23:59	hr:min	not avail.	not avail.	00:00	00:00	4 = DOOR RESISTORS - in this case parameter u5 will be activated 5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated 6 = CONDENSER FAN - in this case parameters P4, F11 and F12 will be activated ENERGY SAVING IN REAL TIME time of activation of the Energy Saving in real time function; see also r4 and HE2
1 2 R.	00:00 00:00 MIN.	23:59 23:59 MAX.	hr:min hr:min	not avail. not avail.	not avail. not avail.	00:00	00:00	4 = DOOR RESISTORS - in this case parameter u5 will be activated 5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated 6 = CONDENSER FAN - in this case parameters P4, F11 and F12 will be activated ENERGY SAVING IN REAL TIME time of activation of the Energy Saving in real time function; see also r4 and HE2 duration of the Energy Saving in real time function; see also r4 and HE1 00:00 = the Energy Saving in real time function will not be activated DEFROSTING IN REAL TIME time of activation of first defrosting period in real time (only if d8 = 4)
1 2 R. 1	00:00 00:00 MIN. 00:00	23:59 23:59 MAX.	hr:min hr:min UM hr:min	not avail. not avail. EVX201	not avail. not avail. EVX203	00:00 00:00 EVX204/5	00:00 00:00 EVX214/5	4 = DOOR RESISTORS - in this case parameter u5 will be activated 5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated 6 = CONDENSER FAN - in this case parameters P4, F11 and F12 will be activated ENERGY SAVING IN REAL TIME time of activation of the Energy Saving in real time function; see also r4 and HE2 duration of the Energy Saving in real time function; see also r4 and HE1 00:00 = the Energy Saving in real time function will not be activated DEFROSTING IN REAL TIME
1 2 2 1 2	00:00 00:00 MIN. 00:00 00:00	23:59 23:59 MAX. 23:59 23:59	hr:min hr:min UM hr:min hr:min	not avail. not avail. EVX201 not avail. not avail.	not avail. not avail. EVX203 not avail. not avail.	00:00 00:00 EVX204/5 :	00:00 00:00 EVX214/5 :	4 = DOOR RESISTORS - in this case parameter u5 will be activated 5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated 6 = CONDENSER FAN - in this case parameters P4, F11 and F12 will be activated ENERGY SAVING IN REAL TIME time of activation of the Energy Saving in real time function; see also r4 and HE2 duration of the Energy Saving in real time function; see also r4 and HE1 00:00= the Energy Saving in real time function; see also r4 and HE1 DEFROSTING IN REAL TIME time of activation of first defrosting period in real time (only if d8 = 4) : = the first defrosting in real time will not be activated time of activation of second defrosting period in real time (only if d8 = 4) : = the second defrosting in real time will not be activated
1 2 2 1 2	00:00 00:00 MIN. 00:00 00:00	23:59 23:59 MAX. 23:59	hr:min hr:min UM hr:min hr:min	not avail. not avail. EVX201 not avail.	not avail. not avail. EVX203 not avail.	00:00 00:00 EVX204/5	00:00 00:00 EVX214/5	4 = DOOR RESISTORS - in this case parameter u5 will be activated 5 = EVAPORATOR VALVE - in this case parameters u7 and u8 will be activated 6 = CONDENSER FAN - in this case parameters P4, F11 and F12 will be activated ENERGY SAVING IN REAL TIME time of activation of the Energy Saving in real time function; see also r4 and HE2 duration of the Energy Saving in real time function; see also r4 and HE1 00:00 = the Energy Saving in real time function; will not be activated DEFROSTING IN REAL TIME time of activation of first defrosting period in real time (only if d8 = 4) : = the first defrosting period in real time (only if d8 = 4)
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- (1) the unit of measurement depends on P2
- (2) Properly set the parameters corresponding to the regulators after modifying parameter P2
- (3) the parameter has effect even after an interruption in the power supply that occurs while the instrument is switched on
- the time established with the parameter is counted even when the instrument is switched off
 if parameter C1 is set to 0, the delay after the end of the cell probe error will be 2 min
- (5) if parameter C1 is set to 0, the delay after
 (6) the parameter differential is 2.0 °C/4 °F
- [7] if when the instrument is switched on, the condenser temperature is already above that established in parameter C7, then parameter C8 will not have effect
- (8) the instrument stores the defroster interval count every 30 min; the modification of parameter d0 takes effect following the end of the preceeding interval or following the activation of manual defrosting.
- (9) the display returns to normal operation when, at the end of defrosting (EVX201 only) or at the end of evaporator fan disactivation (in EVX203, EVX204, EVX204, EVX205 and EVX215 only), the cell temperature falls below that at which the display was initially blocked (or if a temperature alarm is signaled)
- (10) if parameter P3 is set to 0 or 2, the instrument will function as if parameter d8 were set to 0
- (11) 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 compelete defrosting. (12) if parameter P3 is set to 0, the instrument will function as if parameter A0 were set to 0 but it will not store the alarm
- (13) during defrosting and dripping and when the evaporator fan is stopped, the temperature alarms are absent, provided that these were signaled after the activation of defrosting
- (14) during activation of the door microswitch input, the maximum temperature alarm is absent, provided the alarm was signaled after the activation of the input
- (15) when power is restored, the alarm will always be signaled
- (16) if parameter P3 is set to 0, the instrument will function as if parameter F0 were set to 2
- (17) the parameter can also be modified using the procedure described in paragraph 4.8
- (18) if parameter P4 is set to 0, the condenser fan will function in parallel with the compressor
- (19) 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 disactived, the activation will not have any effect on the compressor (20) the instrument stores the alarm once the time established in parameter i2 has expired; if parameter i2 is set to -1, the instrument will not store the alarm
- (21) make sure that the time established with parameter i7 is less than that established with parameter i9
- (22) to avoid damaging the unit connected to the instrument, change the parameter setting when the instrument is switched off
- (23) if parameter u2 is set to 0, switching off the instrument 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 instrument will not 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 on).
 ELECTRIC CONNECTION

13.1 Preliminary notes

With reference to the electrical wiring diagrams:

- the unit connected to and operated by the fourth outpt depends on parameter u1 (EVX204, EVX214, EVX205 and EVX215 only)
- the unit connected to and operated by the fifth outpt depends on parameter u11 (EVX205 and EVX215 only)
- the serial port is the port for communicating with the monitoring system (via serial interface, via TTL, MODBUS communications protocol) or by programming key; the port must not be used for two different purposes

simultaneously.

13.2 EVX201 electrical wiring



13.3 EVX203 electrical wiring



13.4 EVX204, EVX214, EVX205 and EVX215 electrical wiring



13.5 Electrical wiring warnings

- do not use electric or pneumatic screwers on the terminal boards
- If the instrument was brought from a cold place to a hot one, humidity may condense inside the instrument; wait approximately one hour before switching on the power
- make sure that the power tension, frequency, and the electric operating power of the instrument are compatible with the those of the local power voltage
- disconnect the power before performing any type of maintenance operation
- do not use the instrument as a safety device
- · for information about the instrument and repairs contact a member of the Evco sales network



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