Bedienungsanleitung

ESTA Backbar Getränkekühlschrank

Modelle
BA100GE / BA120GE / BA200GE
BAS200GE / BAS300GE
BA25S-SA

seit 1967
Wärmerückgewinnung und Kühltechnik GmbH & Co.KG
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Samstags, an Sonn- und Feiertagen, sowie nach Büroschluss bitte auf den Anrufbeantworter sprechen, Art der Störung, Adresse und Telefonnummer hinterlassen. Wir melden uns umgehend bei Ihnen. per Fax: +49 (0) 2572-7058
e-mail: service@eureka-emsdetten.de

INHALT

WICHTIGE SICHERHEITSVORSCHRIFTEN

1. Vor Inbetriebnahme des Gerätes machen Sie sich bitte mit der Gebrauchanweisung insbesondere der Sicherheitsvorschriften vertraut.
2. Bei Zuwiderhandlung gegen diese oder fahrlässigem Gebrauch übernimmt der Anwender des Produktes die Haftung für eventuell dadurch entstehende Sach- sowie Personschäden.
3. Im Falle einer Störung kontaktieren Sie bitte daher umgehend Ihren Fachhändler.
4. Platzieren Sie den Schrank an einem trockenen Standort.
5. Der Schrank darf nicht in der Nähe von Hitzeabstrahlenden Geräten platziert werden. Vermeiden Sie Standorte mit direktem Sonnenlicht.
6. Bitte denken Sie daran, dass alle elektrischen Geräte gefährlich sein können.
7. Bewahren Sie keine explosiven Stoffe wie z.B. chemische Verdünnungsmittel und Benzin in diesem Gerät auf.
8. Wir erklären, dass kein Asbest noch CFC im Aufbau verwendet worden ist.
9. Das Öl im Kompressor enthält nicht PWB.

Der Kühlschrank enthält das energieeffiziente und nicht ozonabbauende Kältemittel R600a/R290. Weil R600a/R290 ein sehr brennbares Gas ist, muss unbedingt darauf geachtet werden, dass der Kühlschrank im Transport und bei der Installation nicht beschädigt wird. Wenn der Kühlschrank doch beschädigt wird, darf kein offenes Feuer in der Nähe vom Schrank verwendet werden. In dem Fall darf der Schrank auch nicht Strom zugeschlossen werden. Sorgen Sie außerdem für eine gute Entlüftung vom Raum. Bei Zweifel kontaktieren Sie bitte sofort Ihren Lieferanten.

AUFSTELLUNG

Der Schrank wird auf einer Holzpalette für sicheren Transport geliefert. Entfernen Sie diese und stellen Sie den Schrank in einer geraden/waagrechten Position auf.

ANSCHLIEβEN

Das Gerät hat eine Spannung von 230 V/50 Hz.

Der Stecker muss geerdet sein (Schuko).

Sollten Sie das Kabel ersetzen müssen, benutzen Sie unbedingt ein entsprechendes geerdetes Kabel.

Bitte beachten Sie, dass der Anschluss lediglich durch einen erfahrenen Elektriker erfolgen darf.

Wenn der Kabel beschädigt ist sollte es bei entweder der Hersteller oder ein Service Vertreter ersetzt werden um Gefahr zu vermeiden.

EINSCHALTEN

Es empfiehlt sich das Gerät vor Inbetriebnahme zu reinigen (Näheres unter „Reinigen“).

Wichtig!

Wenn der Schrank auf dem Rücken liegend geliefert ist, nehmen Sie 2 Stunden vor Einschalten.

TEMPERATURREGELUNG

Der Thermostat und der Lichtschalter befinden sich in der Bodenplatte.

Der Regler ist voreingestellt für den Schrank und normalerweise es ist nicht notwendig die Einstellung zu regulieren.
Bei Anschließen zeigt das Display die aktuelle Temperatur im Schrank.

Eingestellt Temperatur gezeigt:

SET Drücken Sie auf diesen Taster und Display zeigt die eingestellte Temperatur. Nochmal drücken um normale Temperatur zu zeigen .

Neue Temperatur einstellen:

SET Drücken Sie auf diesen Taster mehr als 3 Sekunden und Display zeigt die eingestellt Temperatur.

Drücken Sie auf diesen Taster um die eingestellte Temperatur zu erhöhen.

Drücken Sie auf diesen Taster um die eingestellte Temperatur zu senken.

SET Drücken Sie auf diesen Taster um die neue Einstellung zu lagern. Display blinkt mit den neuen Wert und geht zurück zu der normalen Funktion.

Störungsanzeigen:

‘P1’ Erscheint in Display, bedeutet das der Raum-Sensor defekt ist. Kundendienst heranziehen. Der Schrank versuch die eingestellte Temperatur zu halten bis Reparatur.

ABTAUEN

Der Schrank wird in vorprogrammierten Intervallen automatisch abgetaut. Falls der Schrank mit häufigen Öffnungen von Tür order häufige Auswechseln von Gefriergut äußerst belastet wird es ist vielleicht notwendig der Schrank manuell abzutauen.

Drücken Sie auf diesen Taster mehr als 3 Sekunden fängt die manuellen Abtauung statt, und dann zu normalen Betrieb zurückkehren.

Tauwasser zur Verdampfung wird in einen Behälter im Kompressorraum abgelassen.

UMSTELLUNG DER ROSTE

Die Rostträger werden umgestellt um gleichzeitig sie zusammen zu drücken und aufwärts heben. Prüfen Sie dass alle 4 Rostträger auf gleiche Höhe platziert sind, bevor die Roste wieder im Gerät eingelegt werden.

WECHSELN DES TÜRANSCHLAGES

Einzeltürschränke nur !

Die 3 Schrauben im Bodenscharnier entfernen und die Tür vom Obenscharnier ausgleiten lassen. Dann den Obenscharnier zu der anderen Seite des Schranks rücken und wieder Tür und Bodenscharnier montieren.

REINIGEN

Der Schrank auf Steckdose ausschalten.

In regelmäßigen Zwischenräumen den Schrank reinigen mit mildem Geschirrspülmittel innen und außen. Alles mit einem Tuch gut trocken.

Verwenden Sie keine säurehaltige Putz- und chemische Lösungsmittel, diese möchten Rostfraß auf die oberflächen und Innenkühlsystem verursachen.

Kondensator und das übrige Kompressorraum mit Staubsauger reinigen und eine steife Bürste.

Achten Sie darauf, dass kein Wasser im Kompressorraum und in de elektrischen Teile kommt, das Kurzschluss verursachen kann

WARTUNG UND KUNDENDIENST

Das Kühlsystem ist ein hermetisches geschlossenes System und fordert kein Besichtigung nur Reinigung.

Bei Ausfall der Kühlung prüfen Sie ob der Netzstecker richtig in der Stockdose ist und die Sicherung der Stockdose in Ordnung ist.

Wenn keine Ursachen vorliegen und Sie die Störung nicht selbst beseitigen konnten, wenden Sie sich bitte an die Kundendienststelle. Teilen Sie die Typenbezeichnung und Seriennummer mit. Diese Informationen finden Sie auf den Typenschild in Schrank an der rechten Seite oben.

ENTSORGUNG

Wenn der Schrank ausgedient hat, muss die Entsorgung durch eine anständig umweltmäßige Wiese vorgenommen werden. Beachten Sie die Vorschriften für Entsorgung. Es gibt z.B. Spezialforderungen und Bedingungen zu beachten.

DIGITAL CONTROLLER

XR01-02CX

1. CONTENTS

2. GENERAL WARNINGS

PLEASE READ BEFORE USING THIS MANUAL

- This manual is part of the product and should be kept near the instrument for easy and quick reference.
- The instrument shall not be used for purposes different from those described hereunder. It cannot be used as a safety device.
- Check the application limits before proceeding.

SAFETY PRECAUTIONS

- Check the supply voltage is correct before connecting the instrument.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to prevent formation of condensation
- Warning: disconnect all electrical connections before any kind of maintenance.
- Fit the probe where it is not accessible by the End User. The instrument must not be opened.
- In case of failure or faulty operation send the instrument back to the distributor or to "Dixell S.p.A." (see address) with a detailed description of the fault.
- Consider the maximum current which can be applied to each relay (see Technical Data).
- Ensure that the wires for probes, loads and the power supply are separated and far enough from each other, without crossing or intertwining.
- In case of applications in industrial environments, the use of mains filters (our mod. FT1) in parallel with inductive loads could be useful.

3. GENERAL DESCRIPTION

Model **XR01CX**, **format 32 x 74 x50 mm** format is a single stage temperature controller suitable for applications in the field of refrigeration or heating. It provides a relay output to drive the compressor. It is also provided with 1 NTC probe input and one configurable digital input. The instrument is fully configurable through special parameters that can be easily programmed through the keyboard or the by HOTKEY.

Model **XR02CX**, **format 32 x 74 x 50 mm**, is a digital thermostat with off cycle defrost designed for refrigeration applications at normal temperature. It provides a relay output to drive the compressor. It is also provided with 1 NTC probe input and one configurable digital input. The instrument is fully configurable through special parameters that can be easily programmed through the keyboard or the by HOTKEY.

4. REGULATION

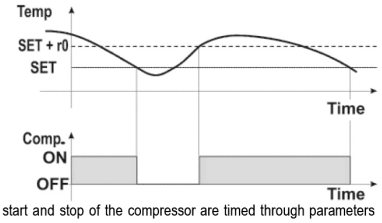
THE REGULATION OUTPUT

The regulation is performed according to the temperature measured by probe. The XR01CX is provided with the **CH** programmable parameter wich enables the user to set the regulation both for heating or cooling applications:

- **CH=cL** --> cooling applications;
- **CH=Ht** --> heating applications;

COOLING APPLICATIONS

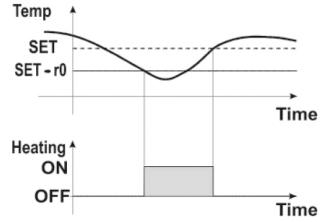
The regulation is performed according to the temperature measured by the thermostat probe with a positive differential from the set point: if the temperature increases and reaches set point plus differential the compressor is started and then turned off when the temperature reaches the set point value again.



In case of fault in the thermostat probe the start and stop of the compressor are timed through parameters "**Cy**" and "**Cn**".

HEATING APPLICATIONS (ONLY FOR XR01CX)

The Hy value is automatically subtracted to the SET POINT. If the temperature decreases and reaches set point minus differential the output is started and then turned off when the temperature reaches set point value again.



5. DEFROST (ONLY XR02CX)

Defrost is performed through a simple stop of the compressor. Parameter "**id**" controls the interval between defrost cycles, while its length is controlled by parameter "**Md**".

6. FRONT PANEL COMMANDS

SET To display target set point, in programming mode it selects a parameter or confirm an operation

To start a manual defrost (Only XR02CX)

In programming mode it browses the parameter codes or increases the displayed value

AUX In programming mode it browses the parameter codes or decreases the displayed value

KEYS COMBINATION

To lock or unlock the keyboard

SET + ▼ To enter in programming mode

SET + ▲ To return to room temperature display

LED	MODO	SIGNIFICATO
❄	On	Compressore enabled
	Flashing	Anti short cycle delay enabled (AC parameter)
❄	On	Defrost in progress
	Flashing	Dripping in progress
°C	On	Measurement unit
	Flashing	Programming mode
°F	On	Measurement unit
	Flashing	Programming mode

HOW TO SEE THE SET POINT

1. Push and immediately release the **SET** key, the set point will be showed;
2. Push and immediately release the **SET** key or wait about 5s to return to normal visualisation.

HOW TO CHANGE THE SETPOINT

1. Push the SET key for more than 2 seconds to change the Set point value;
2. The value of the set point will be displayed and the "°C" or "°F" LED starts blinking;
3. To change the Set value push the o or n arrows within 10s.
4. To memorise the new set point value push the SET key again or wait 10s.

HOW TO START A MANUAL DEFROST (ONLY XR02CX)

Push the **DEF** ❄ key for more than 2 seconds and a manual defrost will start

HOW TO CHANGE A PARAMETER VALUE

To change the parameter's value operate as follows:

1. Enter the Programming mode by pressing the **SET**+ ▼ keys for 3s ("**°C" or "°F"** LED starts blinking).
2. Select the required parameter. Press the "**SET**" key to display its value
3. Use ▲ or ▼ to change its value.
4. Press "**SET**" to store the new value and move to the following parameter.

To exit: Press **SET**+ ▲ or wait 15s without pressing a key.
NOTE: the set value is stored even when the procedure is exited by waiting the time-out to expire.

HIDDEN MENU

The hidden menu includes all the parameters of the instrument.

HOW TO ENTER THE HIDDEN MENU

1. Enter the Programming mode by pressing the **SET**+ ▼ keys for 3s ("**°C" or "°F"** LED starts blinking).
2. Released the keys, then push again the **SET**+ ▼ keys for more than 7s. The L2 label will be displayed immediately followed from the Hy parameter.
   NOW YOU ARE IN THE HIDDEN MENU.
3. Select the required parameter.
4. Press the "**SET**" key to display its value
5. Use ▲ or ▼ to change its value.
6. Press "**SET**" to store the new value and move to the following parameter.

To exit: Press **SET**+ ▲ or wait 15s without pressing a key.
NOTE1: if none parameter is present in L1, after 3s the "nP" message is displayed. Keep the keys pushed till the L2 message is displayed.
NOTE2: the set value is stored even when the procedure is exited by waiting the time-out to expire.

HOW TO MOVE A PARAMETER FROM THE HIDDEN MENU TO THE FIRST LEVEL AND VICEVERSA.

Each parameter present in the HIDDEN MENU can be removed or put into "THE FIRST LEVEL" (user level) by pressing **SET**+ ▼. In HIDDEN MENU when a parameter is present in First Level the decimal point is on.

TO LOCK THE KEYBOARD

1. Keep pressed for more than 3s the ▲ and ▼ keys.
2. The "**OF**" message will be displayed and the keyboard will be locked. If a key is pressed more than 3s the "OF" message will be displayed.

TO UNLOCK THE KEYBOARD

Keep pressed together for more than 3s the ▲ and ▼ keys till the **"on"** message will be displayed.

7. PARAMETERS

REGULATION

Hy **Differential:** (0,1°C ÷ 25°C / 1°F ÷ 45°F) Intervention differential for set point. Compressor Cut IN is SET POINT + differential (Hy). Compressor Cut OUT is when the temperature reaches the set point.
LS **Minimum SET POINT:** (-55°C÷SET/-67°F÷SET): Sets the minimum value for the set point..
US **Maximum SET POINT:** (SET÷99°C/ SET÷99°F). Set the maximum value for set point.
ot **First probe calibration:** (-9.9÷9.9°C /-17÷17°F) allows to adjust possible offset of the first probe.
od **Outputs activation delay at start up:** (0÷99min) This function is enabled at the initial start up of the instrument and inhibits any output activation for the period of time set in the parameter.
AC **Anti-short cycle delay**: (0÷50 min) minimum interval between the compressor stop and the following restart.
Cy **Compressor ON time with faulty probe:** (0÷99 min) time during which the compressor is active in case of faulty thermostat probe. With Cy=0 compressor is always OFF.
Cn **Compressor OFF time with faulty probe:** (0÷99 min) time during which the compressor is OFF in case of faulty thermostat probe. With Cn=0 compressor is always active.
CH **Kind of Action:** **cL**= cooling action; **Ht** = heating action.

DISPLAY

CF **Measurement unit:** (°C÷°F) **°C** =Celsius; **°F** =Fahrenheit. **WARNING**: When the measurement unit is changed the SET point and the values of the parameters Hy, LS, US, oE, o1, AU, AL have to be checked and modified if necessary).
rE **Resolution (only for °C):**(dE ÷ in) **dE**= decimal between -9.9 and 9.9°C; **in**= integer
dy **Display delay:** (0÷15 min.) when the temperature increases, the display is updated of 1 °C/1°F after this time.

DEFROST (Only XR02CX)

id **Interval between defrost cycles:** (0÷99 ore) Determines the time interval between the beginning of two defrost cycles.
Md **Maximum length for defrost:** (0÷99 min. with 0 no defrost) when **P2=n**, (not evaporator probe: timed defrost) it sets the defrost duration, when **P2** = **y** (defrost end based on temperature) it sets the maximum length for defrost.
dF **Display during defrost:** (rt / it / St / dF) **rt**= real temperature; **it**= start defrost temperature; **St**= SET-POINT; **dF**= label **dF.**

ALARMS

AU **Maximum temperature alarm:** (AL÷99°C/99°F) when this temperature is reached the alarm is enabled, after the "**Ad**" delay time.
AL **Minimum temperature alarm:** (-55÷AU°C /-67÷AU°F) when this temperature is reached the alarm is enabled, after the "**Ad**" delay time.
Ad **Temperature alarm delay:** (0÷99 min) time interval between the detection of an alarm condition and alarm signalling.
dA **Exclusion of temperature alarm at startup:** (0÷99 min) time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.

DIGITAL INPUT

iP **Digital input polarity:** (oP ÷ cL) **oP**= activated by closing the contact; **cL**= activated by opening the contact;
iF **Digital input configuration:** (EA/bA/do/dF/Au/Hc) **EA**= external alarm: "EA" message is displayed; **bA**= serious alarm "CA" message is displayed; **do**= door switch function; **dF**= defrost activation; **Au** =not used; **Hc**= inversion of the kind of action;
di **Digital input delay:** (0÷99 min) with **iF=EA** or **bA** delay between the detection of the external alarm condition and its signalling. . With **iF=do** it represents the delay to activate the door open alarm.
dC **Compressor and fan status when open door**: (no/Fn/cP/Fc): **no**= normal; **Fn** = Fans OFF; **cP** =Compressor OFF; **Fc** = Compressor and fans OFF;
rd **Regulation with door open**: (n÷y) **n** = no regulation if door is opened; **Y**= when di is elapsed regulation restarts even if door open alarm is present;

OTHER

Pt **Parameter code table**
rL **Software release**

8. DIGITAL INPUTS

The free voltage digital input is programmable in different configurations by the "**iF**" parameter.

DOOR SWITCH (iF=do)

It signals the door status and the corresponding relay output status through the "**dC**" parameter: **no** = normal (any change); **Fn** = Fan OFF; **CP** = Compressor OFF; **FC** = Compressor and fan OFF.
Since the door is opened, after the delay time set through parameter "**di**", the door alarm is enabled, the display shows the message "**dA**" and **the regulation restarts if rd** = **y.** The alarm stops as soon as the external digital input is disabled again. With the door open, the high and low temperature alarms are disabled.

EXTERNAL ALARM (iF=EA)

As soon as the digital input is activated the unit will wait for "**di**" time delay before signalling the "**EA**" alarm message. The outputs status don't change. The alarm stops just after the digital input is de-activated.

SERIOUS ALARM (iF=bA)

When the digital input is activated, the unit will wait for "**di**" delay before signalling the "**CA**" alarm message. The relay outputs are switched OFF. The alarm will stop as soon as the digital input is de-activated.

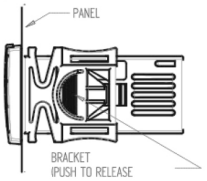
START DEFROST (iF=dF)

It starts a defrost if there are the right conditions. After the defrost is finished, the normal regulation will restart only if the digital input is disabled otherwise the instrument will wait until the "**dd**" safety time is expired.

INVERSION OF THE KIND OF ACTION: HEATING - COOLING (iF=Hc)

This function allows to invert the regulation of the controller: from cooling to heating and viceversa.

9. INSTALLATION AND MOUNTING



The instruments shall be mounted on vertical panel, in a 29x71 mm hole, and fixed using the special bracket supplied.
The temperature range allowed for correct operation is 0÷60 °C. Avoid places subject to strong vibrations, corrosive gases, excessive dirt or humidity. The same recommendations apply to probes. Let air circulate by the cooling holes.

10. ELECTRICAL CONNECTIONS

The instrument is provided with screw terminal block to connect cables with a cross section up to 2,5 mm^2. Before connecting cables make sure the power supply complies with the instrument's requirements. Separate the probe cables from the power supply cables, from the outputs and the power connections. Do not exceed the maximum current allowed on each relay, in case of heavier loads use a suitable external relay.

10.1 PROBES

The probes shall be mounted with the bulb upwards to prevent damages due to casual liquid infiltration. It is recommended to place the thermostat probe away from air streams to correctly measure the average room temperature. Place the defrost termination probe among the evaporator fins in the coldest place, where most ice is formed, far from heaters or from the warmest place during defrost, to prevent premature defrost termination.

11. HOW TO USE THE HOT KEY

11.1 HOW TO PROGRAM THE HOT KEY FROM THE INSTRUMENT (UPLOAD)

1. Program one controller with the front keypad.
2. When the controller is ON, insert the "Hot key" and push ⩓ key; the **"uP"** message appears followed a by flashing "**En**"
3. Push "**SET**" key and the "**En**" will stop flashing.
4. Turn OFF the instrument remove the "Hot Key", then turn it ON again.

NOTE: the "**Er**" message is displayed for failed programming. In this case push again o key if you want to restart the upload again or remove the "Hot key" to abort the operation.

11.2 HOW TO PROGRAM AN INSTRUMENT USING HOT KEY (DOWNLOAD)

1. Turn OFF the instrument.
2. Insert a **programmed "Hot Key" into the 5 PIN receptacle** and then turn the Controller ON.
3. Automatically the parameter list of the "Hot Key" is downloaded into the Controller memory, the "**do**" message is blinking followed a by flashing "**En**".
4. After 10 seconds the instrument will restart working with the new parameters.
5. Remove the "Hot Key"..

NOTE: the "**Er**" message is displayed for failed programming. In this case push again o key if you want to restart the upload again or remove the "Hot key" to abort the operation.

12. ALARM SIGNALLING

Mess.	Cause	Outputs
"P1"	Room probe failure	Compressor output according to "Cy" e "Cn"
"P2"	Evaporator probe failure	Defrost end is timed
"HA"	Maximum temperature alarm	Outputs unchanged
"LA"	Minimum temperature alarm	Outputs unchanged
"EA"	External alarm	Outputs unchanged
"CA"	Serious external alarm	All outputs OFF.
"dA"	Door Open	Compressor and fans restarts

12.1 ALARM RECOVERY

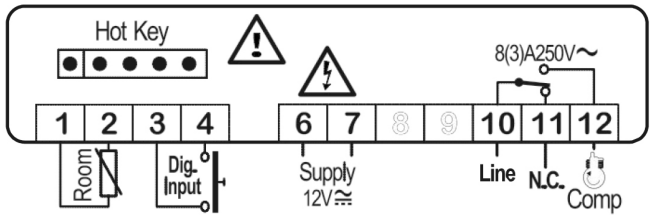
Probe alarms **P1**" and "**P2"** start some seconds after the fault in the related probe; they automatically stop some seconds after the probe restarts normal operation. Check connections before replacing the probe. Temperature alarms "**HA**" and "**LA**" automatically stop as soon as the temperature returns to normal values.
Alarms **"EA"** and **"CA"** (with iF=bL) recover as soon as the digital input is disabled.

13. TECHNICAL DATA

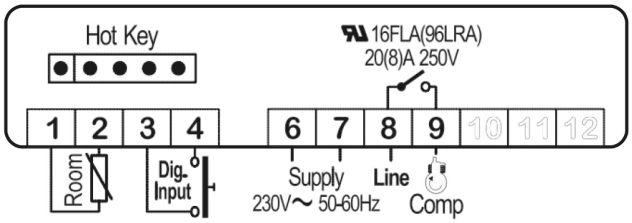
Housing: self extinguishing ABS.
Case: frontal 32x74 mm; depth 50mm;
Mounting: panel mounting in a 71x29mm panel cut-out
Protection: IP20; **Frontal protection:** IP65
Connections: Screw terminal block ≤ 2,5 mm^2 wiring.
Power supply: according to the model: 110Vac ±10%, 50/60Hz --- 230Vac ±10%, 50/60Hz
Power absorption: 3.5 VA max
Display: 2 digits, red LED, 14,2 mm high; **Inputs**: 1 NTC.
Digital input: free voltage contact
Relay outputs: compressor SPST 20(8)A 250Vac or 8(3) A 250Vac;
Data storing: on the non-volatile memory (EEPROM).
Kind of action: 1B; **Pollution grade:** 2; **Software class:** A.; **Rated impulsive voltage**: 2500V; **Overvoltage Category**: II **Operating temperature:** 0÷60 °C; **Storage temperature:** -25÷60 °C. **Relative humidity:** 20÷85% (no condensing)
Measuring and regulation range: NTC -40÷110°C;
Resolution: 0,1 °C or 1°C or 1 °F (selectable); **Accuracy (ambient temp. 25°C)**: ±0,1 °C ±1 digit

14. CONNECTIONS

14.1 XR01-02CX – 1 X 8A – 12VAC/DC



14.2 XR01-02CX – 20A OR 8A -- 110VAC OR 230VAC



NOTE: The compressor relay is 20(8)A or 8(3)A depending on the model.
NOTE: 120Vac connect to 6-7

15. DEFAULT SETTING VALUES

LABEL	DESCRIPTION	RANGE	DEFAULT
REGULATION			
Hy	Differential	0.1 ÷ 25°C/1 ÷ 45°F	3
LS	Minimum Set Point	-55°C÷SET/-67°F÷SET	0
US	Maximum Set Point	SET÷99°C/ SET÷99°F	10
ot	First probe calibration	-9.9÷9.9°C/-17÷17°F	0.0
od	Outputs activation delay at start up	0 ÷ 99 min	3
AC	Anti-short cycle delay	0 ÷ 50 min	3
Cy	Compressor ON time faulty probe	0 ÷ 99 min	15
Cn	Compressor OFF time faulty probe	0 ÷ 99 min	30
CH	Kind of action	cL ÷ Ht	cL
DISPLAY			
CF	Measurement units	°C - °F	°C / °F
rE	Resolution (only for °C)	dE – in	dE
dy	Display delay	0 ÷ 15 min	5
DEFROST (Only XR02CX)			
id	Interval between defrost cycles	0 ÷ 99 hours	6
Md	Maximum length for defrost	0 ÷ 99 min.	30
dF	Display during defrost	rt – in – St – dF	St
ALARMS			
AU	Maximum temperature alarm	ALL÷99°C / ALL÷99°F	99 °C / 99 °F
AL	Minimum temperature alarm	-55°C÷ALU/-67°F÷ALU	-55 °C / -55 °F
Ad	Temperature alarm delay	0 ÷ 99 min	15
dA	Exclusion of temperature alarm at startup	0 ÷ 99 min	90
DIGITAL INPUT			
iP	Digital input polarity	cL – oP	cL
iF	Digital input configuration	EA – bA – do – dF – Au – Hc	EA
di	Digital input delay	0 ÷ 99 min	5
dC	Compressor and fan status when open door	no /Fn / cP / Fc	no
rd	Regulation with door open	n – Y	y
OTHER			
Pt	Parameter code table	Read Only	- - -
rL	Firmware release	Read Only	- - -

dIXEL S.p.a.
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