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XR10CX THERMOSTAT WITH HEATING OR COOLING ACTION XR20CX CONTROLLER FOR NT WITH "OFF CYCLE" DEFROST XR30CX CONTROLLER FOR NT WITH "OFF CYCLE" DEFROST AND ADDITIONAL CONFIGURABLE RELAY XR40CX DIGITAL CONTROLLER WITH DEFROST MANAGEMENT

1599010220 Rel 1 2

OPERATING MANUAL

1. GENERAL WARNINGS

1.1 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 diffe hereunder. It cannot be used as a safety device.
- Check the application limits before proceeding.
 Dixell Srl reserves the right to change the composition of its products, without notice, ensuring the same and unchanged functionality.

- 1.2 SAFETYPRECAUTIONS

 Chack 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 for ondersation.

 Warning: disconnect all electrical connections before any kind of maintenance.
- not be opened.

 In case of failure or faulty operation send the instrument back to the distributor or to Dixel S.r.l. With a detailed description of the fault.

 Consider the maximum current which can be applied to each relay (see

- Consider the maximum outerst writer can be applied to eather the maximum outers writer can be applied to eather 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.

POSAL OF THE PRODUCT

The appliance (or the product) must be disposed of separately in accordance with the local waste disposal legislation in force.

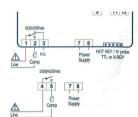
2. FRONT PANEL



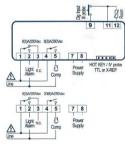
3. CONNECTIONS

XR10CX - XR20CX

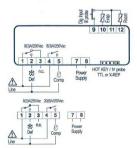




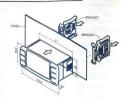
XR30CX



YPANCY



4. DIMENSIONS AND CUT OUT



5. GENERAL DESCRIPTION

Model XR16CV, 2274mm format, is a single stage temperature controller suitable for applications in the field of refigeration or healing. It provides a relay output to drive the compressor. It is also provided with 2 NTC or PTC probe lightly, the first tone for temperature control, the second one, optional, to connect to the HOT KEY temperature control, the second one, optional, to connect to the HOT KEY temperature. As the digital impute and operature as the imperature posts digitally elementary. The digital impute and operation as the imperature posts.

Model XRZCC3. 32:74mm format, is a digital thermostat with officycle defrost designed for refrigerated applications at normal temperature. It provides a relay output to drive the compressor. It is also provided with 2 VIT C or PTC protein prints, the first one for temperature control, the second one, optional, to connect to the HOT KEY terminals to signal the condenser temperature later or to display a temperature. The digital injust can operate as a third temperature

proba.

Model XR3GCX, 32x74mm format, is a digital thermostat with off cycle defrost designed for refingerated applications at normal temperature. It provides two relay outputs, one for the compressor control, the other one can be used as light, for alam signaling or as usualized youtput. It is also provided with ZNTC or PTC probe inputs, the first one for temperature control, the second one, optional, to connect to the HOT KEY terminals to signal the condenser temperature alarm or to display a temperature. The digital input can operate as first demperature probe. The instruments it fally configurable through special parameters that can be easily programmed through the key-board.

Model XR40CX, 32x74nm format, is microprocessor based controller, suitable for applications on medium or low temperature refrigerating units. It has 2 relay outputs to control compressor and deforts, which can be either electrical or reverse cycle (hig lass). It is also provided with three NTC or PTC probe injust, the first one for temperature cortoit, the second one, to be located onto the evaporator, to control the defirst termination temperature, the third one, optional, to comment to the NTC NTC reliminate to again the condense considerable control to the NTC NTC reliminate to again the condense for the NTC relimination of the NTC relimination and the control country temperature. The digital input can operate as fourth temperature probe.

The HOT KEY output allows to connect the units, by means of the external module XA455-CX. to a network line ModBUS-RTU compatible such as the DIXELL monitoring units of X-WEB family. It allows b program the controllers by means the HOT KEY programming layboard.

The instruments are fully configurable through special parameters that can be easily programmed through the keyboard.

6. REGULATION

6.2 COOLING APPLICATIONS

6.1 THE REGULATION OUTPUT (Only for XR10CX - XR20CX - XR30CX)

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

Y + To lock or unlock the keyboard

SET + To enter in programming mode SET + A To return to room temperature display

LED	MODE	FUNCTION
*	ON	Compressor enabled
*	Flashing	Anti-short cycle delay enabled
100	ON	Defrost enabled
**	Flashing	Drip time in progress
(!)	ON	An alarm is occurring
(%)	ON	Continuous cycle is running
	ON	Energy saving enabled
-)0-	ON	Light on
AUX	ON	Auxiliary relay on
°C/°F	ON	Measurement unit
°C/°F	Flashing	Programming phase

8. MIN & MAX TEMPERATURE MEMORIZATION

8.1 HOW TO SEE THE MIN TEMPERATURE

Press and release the vey.
The Lo message will be displayed followed by the minimum temperature

9 2 HOW TO SEE THE MAY TEMPERATURE

Press and release the ^ key.
The Hi message will be displayed followed by the maximum temperature recorded. recorded.

By cressing the A key again or by waiting 5s the normal display will be restored

Hold press the SET key for more than 3s, while the max or min temperature is displayed (rSt message will be displayed).

To confirm the operation the rSt message starts blinking and the normal temperature with edisplayed.

9. MAIN FUNCTIONS

9.1 HOW TO SEE THE SET POINT

Push and immediately release the SET key, the set point will be showed;
 Push and immediately release the SET key or wait about 5s to return to non

- Thermostat probe calibration: (-12.0+12.0°C; -21+21°F) allows adjust possible offset of the thermostat probe.

- Ot. Thermostat probe calibration: (-12.0~12.0°C, -2!~21°F) allows to agist possible offset of the hermostat probe.

 P2E Euporator probe presence (Only for XR40CX); no not present: the defenset stops by time; py present; the defenset stops by time; py present; the defenset stops by time; py present; the defenset stops; time; purposent; the defenset stops; time; present; the terminal operaties as finding in unit; present; the terminal operaties as finding in unit; present; the terminal operaties as the ground probe.

 O3 Third probe calibration; (-12.0~12.0°C; -2!~21°F) allows to adjust possible offset of the hidropcts.

 P4P Fourth probe presence; (n=Not present; p=present).

 O4 Fourth probe calibration; (-12.0~12.0°C; -2!~21°F) allows to adjust possible offset of the fider pote.

 O5 Unptus activation delay at startup; (0~255min) This function is enabled at the initial start up of the instrument and inhibits any output activation for the period off time set in the parameter, and the production of the period off time set in the parameter, and the production of the period off time set in the parameter, and the production of the period off time set in the parameter, and the production of the period off time set in the parameter, and the production of the period off time set in the parameter, and the production of the period off to and the following restart.

 TF Percentage of the second and first probe of regulation (+100; title of the first and second probe, as for the following formula (m(P+P2)/100 + P2).
- P2).

 Compressor ON time during continuous cycle (Only for XR20CX-XR30CX-XR40CX); (0.0+24.0h; res. 10min) Allows to set the length of the continuous cycle: compressor stays on without interruption for the CT time. Can be used, for instance, when the room is filled with new products.

 Set point for continuous cycle: (50+150*C) it sets the set point used during the continuous cycle.
- during the continuous cycle.

 Con Compressor ON time with faulty probe: (0+255 min) time during which
 the compressor is active in case of faulty thermostat probe. With COn=0
 compressor is always OFF.
- the compressor is anye in case of saury thermostan probe. With CUR-U compressor is always OFF.

 COF Compressor OFF time with faulty probe: (0-255 min) time during which this compressor is OFF in case of faulty thermostat probe. With COFF-0 compressor is always active.

 CH Type of action (Only for XR10CX-XR20CX-XR30CX): CL = cooling; Ht =

- CF Temperature measurement unit: *C=Celsius; *F=Fahrenheit. WARNING: When the measurement unit is changed the SET point and the values of the parameters Hy, LS, US, Ot, ALU and ALL have to be checked and modified (fneossary).
- modified if necessary).

 Resolution (for "C): (in = 1"C; dE = 0.1 "C) allows decimal point display.

 Instrument display (Only for XR40CX): (P1; P2, P3, P4, SET, dt); it selects which probe is displayed by the instrument. P1 = thermostat probe; P2 = traint probe; P3 = third probe(only for mode with this option enabled): P4 = fourth probe, SET= set point; dtr= percentage of distributions.
- engaeo); P4 = tourn proce, SE1= set pont; due percentage or vigalization.

 Ed. XiREP display (optional) (Only for XR40CX); (P1; P2, P3, P4, SET, dr); selects which probe is displayed by X: REP. P1 = thermostal probe, P2 = veryor attr probe, P2 = find probe only for mode with this option enabled); P4= fourth probe, SE1 = set point of a percentage of visualization. 45. Visualization probe is set of the probe of visualization when Lod = dri (Only for XR40CX) (0+10); 100 = P1, 0 = P2; if Lod = dri the allows to set the visualization according to the percentage of the first and second probe, as for the following formula (dtr(P1-P2)/100 + P2).

- 9.2 HOW TO CHANGE THE SET POINT

 1. Push the SET key for more than 3 seconds to change the Set point value,

 2. The value of the SET key for more than 2 seconds and a manual defrost will start.

 3. To change the SET value push the ~ or ~ arrows within 10s.

 4. To memorise the new set point value push the SET key again or wait 10s.

 9.3 HOW TO STARTA MANUAL DEFROST

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

 1. The second is the second in the second in

To change the parameter's value operate as follows:

1. Either the Programming mode by pressing the SET+ v keys for 3s ("C or "I. Either the Programming mode by pressing the SET+ v keys for 3s ("C or "I. Either the Programming mode by pressing the SET+ v keys for 3s ("C or "I. Either the Programming mode by pressing the SET key to display its value;

2. Select the nequired parameter Press the SET key to display its value;

3. Use a c v to Loringe its value.

3. Use a c v to Loringe its value.

4. SET to store the new statement of the following parameter.

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time-out expire.

\$\$\$\$ *NOBEN MENU\$

The hidden menu includes all the parameters of the instrument.

HOW TO ENTER THE HIDDEN MENU

1. Einst et he Programming mode by pressing the SET+ ~ keys for 3s (*C or *F

2. Refeased the keys, then push again the SET+ ~ keys for 3s (*C or *F

2. Refeased the keys, then push again the SET+ ~ keys for more than 7s. The
PSI label will be logical immediately followed from the Hy parameter.

NOW YOU ARE IN THE HIDDEN MENU.

3. Secret the required parameter;

**ROWYOU ARE IN THE HIDDEN MENU.

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**ROWYOU ARE IN THE HIDDEN MENU.

3. Recet the required parameter;

**ROWYOU ARE IN THE HIDDEN MENU.

3. Recet the required parameter;

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**ROWYOU ARE IN THE HIDDEN MENU.

3. Recet the required parameter.

4. Recet the required between the end of defrost and the restoring of the rearrows constitution to the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops the time of the fest start-up (Only for XR46CX); (v = 23.51) time interval between the end of the restoring of the rearrows constitution to the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops the time allows the restoring of the required to the restoring of the contro

- NOWYOU ARE INTERHEDEN MENU.

 3. Select the required parameter.

 4. Press the SET by to display its value;

 5. Use a ~ 1 to change its value;

 5. Use a ~ 1 to change its value;

 6. Use a ~ 1 to change its value;

 6. Use a ~ 1 to change its value;

 6. Use a ~ 1 to change its value;

 7. Let the press SET a convait 15s without pressing a key.

 ALC Temperature alarms configuration: (Ab; E) Ab= absolute temperature: alarm management and its value;

 6. Use a ~ 1 to change its value;

 6. Use the sep parameter is present in Pri. after 3s the nP message is displayed. Keep the sep parameter and in the procedure is control by valing the MOVITCE. The set value in be procedure is control by valing the HOVITCE. The set value is a broad even when the procedure is control by valing the HOVITCE. The set value is a broad even when the procedure is control by valing the HOVITCE. The set value is the procedure is control by valing the HOVITCE. The set value is the procedure is control by the HOVITCE. The set value is the procedure is control by the HOVITCE. The set value is the procedure is control by the HOVITCE. The set value is the procedure is control by the HOVITCE. The set value is the procedure is control by the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The set value is the Procedure is the HOVITCE. The Set value is the Procedure is the HOVITCE. The Procedure is the HOVITCE. The Procedure is the HOVITCE. The Set value is the Procedure is the HOVITCE. The Procedure is the HOVITCE

- Keep pressed together for more than 3s the A and Veys till the Pon message will be displayed.

 AP2 Probe selection for temperature alarm of condenser: nP= no probe will be displayed.

 P1 immostat probe: P2= evaporator probe; P3= configurable probe;
- P1=thermostat probe: P2= evaporator probe; P3= consigurative probe.

 AL2 Low temperature alarm of condenser: (-55+150°C) when this temperature is reached the LA2 alarm is signalled, possibly after the Ad2 When defirest is not in progress, it can be activated by holding the ~ key pressed for about 3 seconds. The compressor operates to maintain the coS set point for fault he lines set through the CCI parameter. The cycle can be terminated before the end of the set time using the same activation key ~ for 3 seconds.
- the line set through the CCI parameter. The cycle can be terminated before the code of the set time using the same activation key ~ for 3 seconds.

 9.3 THE ONDEF FUNCTION (STAND-BY)

 With on F = oFF, pushing the ONDEF key, the instrument is switched off. The ACI Condenser temperature alarm delay; (0+255 min) time interval between the detection of the cordenser alarm condition and alarm signalling. ACI Condenser temperature alarm delay; (0+255 min) time interval between the detection of the cordenser alarm condition and alarm signalling. ACI Condenser temperature alarm delay; (0+255 min) time interval between the detection of the cordenser alarm condition and alarm signalling. ACI Condenser temperature alarm delay; (0+255 min) time interval between the detection of the cordenser alarm condition and alarm signalling. ACI Condenser temperature alarm of condenser: n = no: compressor keys on working; Y = yes, compressor is switched of ill the administration of the properties of the properties of the properties alarm condenser: n = no: compressor keys on working; Y = yes, compressor is switched of ill the administration of the properties alarm condenser: n = no: compressor keys on working; Y = yes, compressor is switched of ill the administration of the properties of the prop

SECURIO RELATIONS FOR ARROUGH.

A Jammelly sillencing (with OA4FALT): no silencing disabled: alarm relay size on till alarm condition lasts, yo silencing enabled: alarm relay is authened OFF by pressing a key during an alarm).

A1 Second relay configuration: ALF alarm; Light job; AuSF auxiliary relay; onF always on this instrument on; do = do not select it; dEF= do not select it. Trame Con not select tit. Trame Con scheduling file?

9.5 HIDDEN MENU

The Hy value is automatically set above the Set Point. If the tempera increases and reaches set point plus differential the compressor is started then turned off when the temperature reaches the set point value again.



6.3 HEATING APPLICATIONS (Only for XR10CX - XR20CX - XR30CX)

The Hy value is automatically set under the Set Point. If the temperat decreases and reaches set point minus differential the regulation output activated and then turned off when the temperature reaches the set point value in the set point value.



6.4 COMPRESSOR (Only for XR20CX - XR30CX - XR40CX)

The regulation is performed according to the temperature measured by the thermostal proble with a positive differential from the set point; if the temperature increases and reaches set point plus differential the comperator increases and reaches set point plus differential the comperator is started and then turned off when the temperature reaches the set point value again. In case of fault in the thermostal proble the start and stop of the compressor are timed through parameters COn and COI.

6.5 DEFROST (Only for XR20CX - XR30CX)

Defrost is performed through a simple stop of the compressor. Parameter IdF controls the interval between defrost cycles, while its length is controlled by parameter IdF. 8.6 DEFROST(Only for XR40CX) To deforts notes are available through the tdf parameter: defoot through electrical heater (diff = EL) and hot gas deforts (diff = ni). Other parameters are used to control the intend between efforts (clips (diff), its national time) (MdF) and two deforts modes: timed or controlled by the evaporator's probe (PZP).

At the end of deforts droping time is started, its length is set in the Fdt parameter. With 61th 01h editiping time is disabled.

7. FRONT PANEL COMMANDS

To see the max, stored temperature. In programming mode it brow the parameter codes or increases the displayed value

SET To display target set point, in programming mode it selects a

To start a manual defrost

9.7 TO UNLOCK THE KEYBOARD

9.8 THE CONTINUOUS CYCLE

To see the min stored temperature. In programming mode It browses the parameter codes or decreases the displayed value by To switch the instrument off, if on F = oFF

To switch the light, if Act = Lig (Only for XR30CX)

If the set point. Us Maximum ext point; (SET-150"C) SET-802"F) Set the maximum value for set point. Second relay configuration. All ones are consistent of the set point. Second relay configuration. All ones are consistent or set point. Set point of the set point. Set point of the maximum value for set point. Set point (SET-150"C) SET-802"F) Set the maximum value for set point. Second relay configuration. All ones are consistent or set point. Second relay configuration. All ones are consistent or set point. Set point or set

AOP Alarm relay polarity: it set if the alarm relay is open or closed when an alarm happens. CL- terminals 1-2 closed during an alarm; oP= terminals 1-2 conduring an alarm.

11. DIGITAL INPUT

11.1 DOOR SWITCH (I1F#dor)

11.10ORSWTCH(IF=acr)

12.1ALARM RECOVERY

13.1ALARM RECOVERY

14.1ALARM RECOVERY

15.2 Page 14.2 Page 15.2 Page 15.2

11.2 GENERIC ALARM (i1F = EAL)

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

AoP Alarm relay polarity; itself if the alarm relay is open or closed when a alarm happens. CL-iterminals 1-2 closed during an alarm.

1-2 open during an al

Adr PbC	Serial address (1+244): Identifies the instrument address when connected to a ModBUS compatible monitoring system. Type of probe: It allows to set the kind of probe used by the instrument: PbC = PBC probe, nt = NTC probe. onloff key enabling: nu = disabled; oFF = enabled; ES = not set it!	4. After 10 seconds the instrument will restart working with the new parameters. S. Remove the Hottle, S. Remove the Hottle, or S. Remove the Hot				
dP1 dP2	Thermostat probe display Evaporator probe display (Only for XR40CX)	MESS	CAUSE	OUTPUTS		
dP3	Third probe display- optional.	'P1"	Room probe failure	Compressor output acc. to par. "Con" and "COF"		
dP4	Fourth probe display	*P2*	Evaporator probe failure	Defrost end is timed		
rSE	Real set point: it shows the set point used during the energy saving cycle	"P3"	Third probe failure	Outputs unchanged		
-20	or during the continuous cycle.	'P4"	Fourth probe failure	Outputs unchanged		
rEL	Software release for internal use.	"HA"	Maximum temperature alarm	Outputs unchanged		
Ptb	Parameter table code: readable only.	"LA"	Minimum temperature alarm	Outputs unchanged		
		"HA2"	Condenser high temperature	It depends on the "Ac2" parameter		
11. DIGITAL INPUT		"LA2"	Condenser low temperature	It depends on the "bLL" parameter		
11.1	JIGHAL INPUT	"dA"	Door open	Compressor according to rrd		
		"EA"	External alarm	Output unchanged		
The f	free voltage digital input is programmable in different configurations by	"CA"	Serious external alarm (i1F=bAL)	All outputs OFF		
the it	1F parameter.	"CA"	Pressure switch alarm (i1F=PAL)	All outputs OFF		

17.2 OTHER MESSAGES

,	Pon	Keyboard unlocked	
	PoF	Keyboard locked	

ABEL	DESCRIPTION	RANGE	XR 10CX	XR20CX	XR30CX	XR40CX
Set	Set Point	LS-US	5.0°C / 41°F	3.0°C/37°F	3.0°C / 37°F	-5.0°C / 0°F
Ну	Differential	0.1+25°C/ 1+45°F	2.0°C / 4°F	2.0°C/4°F	2.0°C / 4°F	2.0°C/4°F
LS	Minimum Set Point	-55°C+SET/ -67°F+SET	-50.0°C/-58°F	-50.0°C / -58°F	-50.0°C / -58°F	-50.0°C / -58°
US	Maximum Set Point	SET+150°C/ SET+302°F	110 °C / 230°F	110 °C / 230°F	110 °C / 230°F	110 °C / 230°
ot	First probe calibration	-12+12°C/ -21+21°F	0.0°C / 0°F	0.0°C/0°F	0.0°C / 0°F	0.0°C/0°F
P2P	Second probe presence	n - y	# -	-	-	у
οE	Second probe calibration	-12+12°C/ -21+21°F	-	=:	-	0.0
P3P	Third probe presence	n-y	n	n	n	n
03	Third probe calibration	-12÷12°C/ -21÷21°F	0.0°C / 0°F	0.0°C/0°F	0.0°C / 0°F	0.0°C/0°F
P4P	Fourth probe presence	n-y	n	n	n	n
04	Fourth probe calibration	-12+12°C/ -21+21°F	0.0°C / 0°F	0.0°C/0°F	0.0℃ / 0°F	0.0°C/0°F
odS	Outputs activation delay at start up	0 ÷ 255 min	0	0	0	0
AC	Anti-short cycle delay	0 ÷ 50 min	1	1	1	. 1
rtr	P1-P2 percentage for regulation	0 ÷ 100 (100=P1, 0=P2)	-	-	7 - 7	100
CCt	Continuos cycle duration	0 ÷ 24 h		0.0	0.0	0.0
ccs	Set Point for continuous cycle	-55.0÷150,0℃ -67÷302°F	-	3°C / 37°F	3°C/37°F	-5,0 °C / 0°
Con	Compressor ON with faulty probe	0 ÷ 255 min	15	15	15	15
CoF	Compressor OFF with faulty probe	0 + 255 min	30	30	30	30
СН	Kind of action	cL+ Ht	cL	cL	cL	_
CF	Measurement units	°C/°F	°C/°F	°C/°F	°C/°F	°C/°F
rES	Resolution (only for °C)	dE – in	dE / in	dE / in	dE/in	dE/in
Lod	Probe displayed	P1; P2; P3; P4; Set dtr	-	- 0	-	P1
rEd	X-REP display	P1; P2; P3; P4; Set dtr	-	- 1	-	P1
dLy	Display delay	0+20.0min(10sec.)	0	0	0	0
dtr	P1-P2 percentage for disply	1+99	_	_	_	50
tdF	Defrost type	EL; in		_	_	EL
dFP	Probe selection for def. termination	nP; P1; P2; P3; P4	-	1527	100 a 10	P2
dtE	Defrost termination temperature	-50+50°C	_	LIGHT Y		8°C / 46°F
IdF	Interval between def. cycles	0 + 120 h		8	8	6
MdF	Max length for def.	0 ÷ 255 min	-	20	20	30
dFd	Display during def.	rt; it; Set; dEF	-	t	it	t
dAd	MAX display delay after defrost	0 ÷ 255 min	-	30	30	30
Fdt	Draining time	0+120 min	-	-	-	0
dPo	First defrost after startup	n-y	-	LY -	-	n
dAF	Defrost delay after fast freezing	0 ÷ 23h and 50°	-	-	-	0.0
ALC	Temperature alarms configuration	rE-Ab	Ab	Ab	Ab	Ab

When the digital input is activated, the unit will wait for did 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.

When the digital input is activated, the unit and signalling the CA alarm message. The relay outputs are switched OFF. The signalling the CA alarm message. When the displaced the each water.

14. A PRESSURE SWITCH (IFF = PAL.)

15. If during hin hardwalf lines alty bid parameter, the pressure switch has resorbed. The number of adhabitor of the nPS parameter, the pressure switch has resorbed. When the displaced The compressor as all parameter, the pressure share the displaced The compressor as always OFF. The nPS each water in the distinct in the parameter of the nPS each water.

11. START DEFORT (IFF=BF) (Only for XR20CX -XR30CX -

The digital input polarity depends on the i1P parameter. i1P=CL: the input is activated by closing the contact. i1P=OP: the input is activated by opening the contact.

12. TTL SERIAL LINE FOR MONITORING SYSTEMS

The TTL serial line, available through the HOTKEY connector, allows by means of the external TTL/RS485 converter, XJ485-CX, to connect the instrument to a monitoring system ModBUS-RTU compatible such as the X-WEB500/3000/300.

13. X-REP OUTPUT OPTIONAL

As optional, an X-REP can be connected to the instrument, trough the HOY KEY connector. The X-REP output EXCLUDES the serial connection. To connect the X-REP to the instrument the following connectors must be used CAB-51F(1m), CAB-52F(2m), CAB-55F(5m)

14. INSTALLATION AND MOUNTING

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 brations, corrosve gases, excessive dirt or humidily. The same recommendations apply to probes. Let air circulate by the cooling holes.

15. ELECTRICAL CONNECTIONS

The instruments are provided with screw terminal block to connect callels with a cross section up to 2.5 mm? 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 output's and the power connections. Do not conced the maximum currier allowed on each relay, incase others thanks use a satisfact external relay.

		On the display or in dP2, dP3, dP4: the selected probe is nor enabled
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ALU Max temperature alarm

PTC probe: -50 * [50 * [50 * C] -58 * 302 * F).

Resolution: 0.1 *C or 1 *F (selectable).

Accuracy (ambient temp. 25 *C): ±1 *C ±1 digit (XR10CX, XR20CX); ±0.7 *C±1 digit.

	ALL	Min temperature alarm	-50+50°C/- 58+122°F	-50.0°C / -58°F	-50.0°C / -58°F	-50.0°C/-58°F	-50.0°C / -58°F
	AFH	Differential for temp. alarm recovery	0,1°C+25,5°C 1°F+45°F	1°C/2°F	1°C/2°F	1°C /2°F	1°C/2°F
	ALd	Temperature alarm delay	0 ÷ 255 min	15	15	15	15
	dAo	Exclusion of temp. alarm at startup	0 ÷ 24 h	1.0	1.3	1.3	1.3
	AP2	Probe for temp, alarm of condenser	nP; P1; P2; P3; P4	P4	P4	P4	P4
4Vac/dc,	AL2	Condenser for low temp. alarm	-55.0+150,0°C -67+302°F	-40°C / 40°F	-40°C/-40°F	40°C / 40°F	-40°C/-40°F
	AU2	Condenser for high temp. alarm	-55.0+150,0°C -67+302°F	110°C/230°F	110°C/230°F	110°C /230°F	110°C/230°F
	AH2	Differential for condenser temp, alarm recovery .	0,1°C+25,5°C 1°F+45°F	5°C/10°F	5°C / 10°F	5°C/10°F	5°C / 10°F
	Ad2	Condenser temp. alarm at start up	0 ÷ 254 (min.), 255=nU	15	15	15	15
	dA2	Delay of cond. temp. alarm at start up	0 ÷ 24 h	1.0	1.3	1.3	1.3
	bLL	Compressor off for condenser low temp. alarm	n-y	n	n	n	n
	AC2	Compressor off for condenser high temp. alarm	n-y	n	n	n	n
	tbA	Alarm relay disabling	n-y	1 -	-	у	-
°F); °F).	oA1	2 nd relay configuration	ALr-dEF-Lig-AUS- onF-Fan-db-dF2		-	Lig	-
X); ±0,7	AoP	Alarm relay polarity	cL – OP	-	-	cL	-
A), ±0,7	i1P	Digital input polarity	cL – OP	CL	cL	cL	dL
	н	Digital input configuration	EAL-bAL-PAL-dor- dEF-Htr-AUS	EAL	EAL	dor	EAL
23	did	Digital input alarm delay	0 ÷ 255 min	5	5	15	5
	nPS	Number of activation of pressure switch	0 ÷ 15	15	15	15	15
Trans.	OdC	Comp. status when open door	no; Fan; CPr, F_C	no	no	no	no
	rrd	Regulation restart with door open	n - y	у	у	у	у
	HES	Differential for Energy Saving	-30°C+30°C -54°F+54°F	0.0°C / 0°F	0.0°C/0°F	0.0°C / 0°F	0.0°C/0°F
	Adr	Serial address	0 + 247	1 1	1	1	1
	PbC	Kind of probe	Ptc - ntc	ntc	ntc	ntc	ntc
	OnF	On/off key enabling	nu - OFF- ES	nu	nu	nu	nu
	dP1	Room probe display	Probe value	-			-
	dP2	Evaporator probe display	Probe value	-	-	-	-
	dP3	Third probe display	Probe value	-	-	-	-
49	dP4	Fourth probe display	Probe value	-		_	2
- 35	rSE	Real set point value	Read only	- 10			
	rEL	Software release	Read only	-			
	Ptb	Parameter code table	Read only				





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