

# **MOD**: SB36/B3

Production code: CNX 93V

Saladette VENT	TILATED Range 2 DOORS
model	value
	XR06CX
Set	-18
Ну	4
ot	-1
LS	-18
US	-10
P2	Y
OE	0
OD	3
AC	4
CY	15
CN	30
CF	OC
RE	DE
LD	P1
DY	0
TD	IN
DE	12
ID	4
MD	8
DD	0
DF	IT
DT	4
DP	N
FC	ON
FD	4
FS	50
AU	99
AL	-55
AD	15
DA	90
IP	CL
IF	DO
DI	1
DC	NO
RD	Υ

	ATED Range 3 DOORS
model	value
	06CX
Set	-18
Ну	4
ot	1, 5
LS	-18
US	-10
P2	Y
OE	0
OD	3
AC	4
СҮ	15
CN	30
CF	OC
RE	DE
LD	P1
DY	0
TD	IN
DE	13
ID	4
MD	20
DD	0
DF	IT
DT	3
DP	N
FC	CN
FD	5
FS	-5
AU	99
AL	-55
AD	15
DA	90
IP	CL
IF	DO
DI	1
DC	NO NO
RD	Υ

# 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
H2	Maximum temperature alarm for third probe	Outputs unchanged
L2	Minimum temperature alarm for third probe	Outputs unchanged
EA	External alarm	Outputs unchanged
CA	Serious external alarm	All outputs OFF
dA	Door Open	Compressor and fans restarts
HF	Defrost Alarm	Outputs unchanged

## 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", "LA", "U2" and "L2" 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.

Defrost alarms "HF" start when the selected probe value not reach the second Defrost termination temp within the second defrost duration. (If P2 have probe error alarm, the Defrost will run by MS and Md. No Defrost Alarm will be generated.); it automatically stops when P2 probe reach to dE(dS) within Md(MS-Md) time

# DIGITAL CONTROLLER WITH DEFROST AND FANS MANAGEMENT

#### XR06CX FW1.7

	OFFICE WARNINGS	
1	GENERAL WARNINGS	1
2	GENERAL DESCRIPTION	1
3	REGULATION	
-		
4	DEFROST	
5	FANS	1
6	FRONT PANEL COMMANDS	1
7	PARAMETERS	
8	DIGITAL INPUTS	2
9	INSTALLATION AND MOUNTING	
10	ELECTRICAL CONNECTIONS	3
11	USE THE HOT KEY	3
12	ALARM SIGNALLING	3
13	TECHNICAL DATA	3
14	CONNECTIONS	3
15	DEFAULT SETTING VALUES	4

### 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 different from those described hereunder. It cannot be used as a safety device.
- Check the application limits before proceeding.
- Dixell SrI reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.

#### 1.2 SAFETY PRECAUTIONS

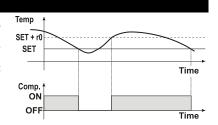
- Check the supply voltage is correct before connecting the instrument.
- Do not expose to water or moisture: use the controller only within the operating limits avoiding sudden temperature changes with high atmospheric humidity to prevent formation of condensation
- Warning: disconnect all electrical 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 (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.

## 2 GENERAL DESCRIPTION

The XR06CX, format 32x74x60 mm, is microprocessor based controller, suitable for applications on medium or low temperature ventilated refrigerating units. It has three relay outputs to control compressor, fan, and defrost which can be either electrical or reverse cycle (hot gas). The device is also provided with 2 or 3 NTC probe inputs, the first one for temperature control and the second one to be located onto the evaporator, to control the defrost termination temperature and to managed the fan. It is also provided with a configurable digital input. The third probe, present if the digital input is disabled, can be used to condenser temperature monitor operations. With the HOTKEY it's possible to program the instrument in a quick and easy way.

## 3 REGULATION

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  ${\bf Cy}$  and  ${\bf Cn}$ .

#### 4 DEFROST

Two defrost modes are available through the td parameter:

- td=EL → defrost through electrical heater (compressor OFF)
- td=in → hot gas defrost (compressor ON).

Two defrost cycles are available for configuration by parameters: the interval between defrost cycles (id), its maximum length (Md for first defrost, MS for second defrost), and two defrost modes at the end of defrost dripping time is started, its length is set in the dt parameter. With dt=0 the dripping time is disabled.

#### 4.1 AUTO DEFROST MODE

If  $St \le dL$ , then the defrost follow the par. td (electric or hot-gas) and P2 probe value. If St > dL, then the defrost will be only for compressor stop (off-cycle defrost), bypassing the par. td and following only the evaporator's probe and par. Md. No defrost output will be activated if St > dL. Where:

- St is the set point of temperature (from probe P1)
- td is the defrost mode selection, default value is EL (electric heaters)

- P2 probe is the defrost temperature probe selected, (if the P2=n or P2 probe failure, it that case any defrost will end for Md time)

#### 5 FAN

With FC parameter it can be selected the fans functioning:

- FC=cn → will switch ON and OFF with the compressor and not run during defrost
- FC=on → fans will run even if the compressor is off, and not run during defrost

After defrost, there is a timed fan delay allowing for drip time, set by means of the Fd parameter.

- FC=cy → fans will switch ON and OFF with the compressor and run during defrost
- FC=oY → fans will run continuously also during defrost.

An additional parameter FS provides the setting of temperature, detected by the evaporator probe, above which the fans are always OFF. This is used to make sure circulation of air only if his temperature is lower than set in FS.

#### 5.1 FANS AND DIGITAL INPUT

When the digital input is configured as door switch (iF=do) fan and compressor status depends on the dC parameter value:

- dC=no → normal regulation;
- dC=Fn → fans OFF;
- dC=CP → compressor OFF;
- dC=FC → compressor and fans OFF.

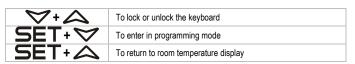
When rd=Y, the regulation restart with door open alarm.

### FRONT PANEL COMMANDS



SET	To display target set point, in programming mode it selects a parameter or confirm an operation.
*	(DEF) To start a manual defrost. (Lig) To switch on and off the light (If O1=Li)
$\triangle$	(UP) In programming mode it browses the parameter codes or increases the displayed value.
<b>∀</b> 0	(DOWN) In programming mode it browses the parameter codes or decreases the displayed value.  In non-programming mode it can switch the instrument enter or exit from stand-by mode through pushing more than 3 sec (when do=on).

#### KEYS COMBINATION



LED	MODE	SIGNIFICATO
*	On	Compressor enabled
17×	Flashing	Anti short cycle delay enabled (AC parameter)
. <b>.</b> .	On	Defrost in progress
**	Flashing	Dripping in progress or Defrost Alarm Active (flashing along with Alarm icon)
<b>%</b>	On	Fans output enabled
7	Flashing	Fans delay after defrost
0	On	Measurement unit
_	Flashing	Programming mode
°=	On	Measurement unit
<b>F</b>	Flashing	Programming mode
(1)	On	Stand-by mode, equal the instrument off. The output and related relay set to OFF
(ф)	On	Alarm is occurring

#### 6.1 HOW TO SEE THE SET POINT

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

### 6.2 HOW TO CHANGE THE SETPOINT

- 1. Push the **SET** key for more than 2 sec to change the Set point value;
- 2. The value of the set point will be displayed and the "°C" or "°F" LED starts blinking;
- To change the Set value push the UP or DOWN arrows.
- To memorise the new set point value push the SET key again or wait for 10 sec.

#### 6.3 HOW TO START A MANUAL DEFROST

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

#### 6.4 HOW TO CHANGE A PARAMETER VALUE

To change any parameter value, operate as follows:

- Enter the Programming mode by pressing the SET+DOWN keys for 3 sec ("°C" or "°F" LED starts blinking).
- 2. Select the required parameter. Press the SET key to display its value

## Installing and operating instructions

- Use UP or DOWN to change its value.
- 4. Press SET to store the new value and move to the following parameter.

To exit: Press SET+ UP or wait for 15 sec without pressing any key.

NOTE: the set value is stored even when the procedure end by waiting the time-out to expire

#### HIDDEN MENU 6.5

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+DOWN keys for 3 sec ("°C" or "°F" LED starts blinking)
- Released the keys and then push again the SET+DOWN keys for more than 7 sec. The "L2" label will be displayed immediately followed from the Hy parameter. NOW YOU ARE IN THE HIDDEN MENU.
- Select the required parameter.
- Press the SET key to display its value
- Use UP or DOWN to change its value.
- Press SET to store the new value and move to the following parameter.

To exit: Press SET+ UP or wait for 15 sec without pressing any key.

NOTE1: if there are no parameters in L1, after 3 sec the "nP" message will be displayed. Keep both keys pushed till the "L2" message will be displayed.

NOTE2: the set value is stored even when the procedure ends 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+DOWN. In HIDDEN MENU when a parameter is present in First Level the decimal point is on.

#### 6.6 TO LOCK THE KEYBOARD

- Keep pressed for more than 3 sec the UP and DOWN keys.
- The "OF" message will be displayed and the keyboard will be locked. If a key is pressed more than 3 sec the "OF" message will be displayed.

#### TO UNLOCK THE KEYBOARD

Keep both UP and DOWN key pressed more than 3 sec untill the "on" message will be displayed

#### **PARAMETERS**

Hy	Differential: (0.1 to 25°C; 1 to 45°F) differential for set point. Compressor Cut IN is SET
	POINT + differential ( <b>Hy</b> ). Compressor Cut OUT is when the temperature reaches the set point.
LS	Minimum SET POINT: (-55°C to SET; -67°F to SET) sets the minimum value for the set point.
US	Maximum SET POINT: (SET to 99°C: SET to 99°F) set the maximum value for set point

REGULATION

). Compressor Cut OUT is when the temperature reaches the set point. -55°C to SET; -67°F to SET) sets the minimum value for the set point. T: (SET to 99°C; SET to 99°F) set the maximum value for set point. ot First probe calibration: (-9.9 to 9.9°C; -17 to 17°F) allows to adjust possible offset of the first probe P2 Evaporator probe presence: n=not present; y=the defrost stops by temperature.

οF Second probe calibration: (-9.9 to 9.9°C; -17 to 17°F) allows to adjust possible offset of the second probe. F5

Filter probe enabling: (nu; AL; do) set the field of action of the internal measurement filter. nu=not used; AL=the filter will always works on all probes; do=the filter will only works on all probes for 30 sec after opening of the door.

Outputs activation delay at start up: (0 to 99min) this function is enabled at the initial start up od of the instrument and inhibits any output activation for the period of time set in the parameter. AC Anti-short cycle delay: (0 to 50 min) minimum interval between the compressor stop and the

CY Compressor ON time with faulty probe: (0 to 99min) 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 to 99min) time during which the compressor is OFF in case of faulty thermostat probe. With Cn=0 compressor is always active.

Stand-by mode function Enable: (on, off) on = stand-by mode function enabled, the instrument will be in or exist stand-by mode through pushing " $\checkmark$ " key more than 3 sec pushing; off = stand-by mode function disabled.

#### DISPLAY

do

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.
Ld	<b>Default display:</b> (P1; P2) <b>P1</b> =thermostat probe; <b>P2</b> =evaporator probe. <b>SP</b> =Set point (only XR04CX).
dy	Display delay: (0 to 15min) when the temperature increases, the display is updated of 1°C or

#### DEFROST

1°F after this time

DEFR	.031
td	<b>Defrost type:</b> (EL; in) <b>EL</b> = electrical heater, compressor OFF; <b>in</b> =hot gas, compressor ON.
dL	<b>Level for auto defrost activation:</b> (-50 to 99°C; -67 to 99°F) value for auto defrost function activation.
dE	<b>Defrost termination temperature first defrost</b> : (-55 to 50°C; -67 to 99°F) if <b>P2=y</b> it sets the temperature measured by the evaporator probe, which causes the end of first defrost.
dS	<b>Defrost termination temperature second defrost</b> (-55 to 50°C; -67 to 99°F) if <b>P2=y</b> it sets the temperature measured by the evaporator probe, which causes the end of defrost for second defrost.
id	Interval between defrost cycles: (0 to 99min) Determines the time interval between two consecutives defrost cycles.
Md	Maximum length for first defrost: (0 to 99min, 0 means no defrost) when P2=n, (no evaporator probe: timed defrost) it sets the defrost duration, when P2=y (defrost end based on temperature) it sets the maximum length for first defrost.
MS	Maximum length for second defrost: (0 to 99min, 0 means no defrost) when P2=n, (no evaporator probe: timed defrost) it sets the defrost duration, when P2=y (defrost end based on temperature) it sets the maximum total length for two defrost.  Note: The second defrost duration should be MS-Md.

Start defrost delay: (0 to 99min) this is useful when different defrost start times are

dF	Display during SP=SET-POINT		SP;	dF) <b>rt</b> =rea	al temperature;	it=start	defrost	temperature;

the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost. **Defrost at power on:** (Y; n) **Y**=at power on defrost starts; **n**=defrost doesn't start at power-on.

Fans operating mode: (cn, on, cY, oY) cn=in runs with the compressor, OFF during defrost;

Drip time: (0 to 99min) time interval between reaching defrost termination temperature and

#### dΡ FANS

dt

		on=continuous mode, OFF during defrost; cY=runs with the compressor, ON during defrost; oY=continuous mode, ON during defrost.
Fo	t	Fans delay after defrost: (0 to 99min) Interval between the end of a defrost operation and the next evaporator fans start.

Fans stop temperature: (-55 to 50°C; -67 to 99°F) setting of temperature, detected by

## evaporator probe, above which fans are always OFF

auxiliary relay: Fn. nF.db.C2.d2: don't select it:

regulation restarts even if door open alarm is present.

#### ALARMS

AU	Maximum temperature alarm: (AL to 99°C; AL to 99°F) when this temperature is reached the alarm is enabled, after the Ad delay time.
AL	Minimum temperature alarm: (-55°C to AU; -67°F to AU) when this temperature is reached the alarm is enabled, after the Ad delay time.
FH	Differential for temperature alarm recovery: (0.1 to 25°C; 1 to 45°F)
Ad	<b>Temperature alarm delay:</b> (0 to 99min) time interval between the detection of an alarm condition and alarm signalling.
dA	Exclusion of temperature alarm at startup: (0 to 99min) time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.

First relay Configuration( dF,Fn,AL,Li,Au,nF,db,C2,d2):dF: defrost; AL: alarm; Li: light; Au:

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 to 99min) 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: (Y; n) n=no regulation if door is opened; Y=when di is elapsed

#### OTHER

	d1	Thermostat probe display (read only)
	d2	Evaporator probe display (read only)
	rS	Real Set Point value (read only)
	Pt	Parameter code table (read only)
	rL	Software release (read only)

#### **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  $\mathbf{d}\mathbf{i}$ , 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.

#### 8.2 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 doesn't change. The alarm stops just after the digital input is deactivated

#### 8.3 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-

#### START DEFROST (iF=dF) 8.4

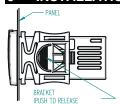
It starts a defrost if there are the right conditions. After the defrost is finished, the normal regulation will restart only if the digital input is disabled otherwise the instrument will wait until the Md safety time is expired.

#### KIND OF ACTION: HEATING OR COOLING (iF=HC)

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

necessary to avoid overloading the plant

#### INSTALLATION AND MOUNTING



Instrument XR06CX 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 to 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 2.5mm². 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 USE THE HOT KEY

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

Program a controller by using the keypad.

- 1. When the controller is ON, insert the "Hot Key" and push UP key.
- 2. The "uP" message will appear, followed a by a flashing "Ed" label.
- 3. Push SET key and the "Ed" will stop flashing.
- Turn OFF the instrument, remove the "Hot Key" and then turn it ON again.

**NOTE**: the "Er" messagewill be displayed in case of a failed programming operation. In this case push the **UP** 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)

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

NOTE: the "Er" message is displayed in case of a failed programming operation. In this case turn the unit off and then on if you want to restart the download again or remove the "Hot Key" to abort theoperation.

#### 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
H2	Maximum temperature alarm for third probe	Outputs unchanged
L2	Minimum temperature alarm for third probe	Outputs unchanged
EA	External alarm	Outputs unchanged
CA	Serious external alarm	All outputs OFF
dA	Door Open	Compressor and fans restarts
HF	Defrost Alarm	Outputs unchanged

#### 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", "LA", "U2" and "L2" 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.

Defrost alarms "HF" start when the selected probe value not reach the second Defrost termination temp within the second defrost duration. (If P2 have probe error alarm, the Defrost will run by MS and Md. No Defrost Alarm will be generated.); it automatically stops when P2 probe reach to dE(dS) within Md(MS-Md) time

#### 13 TECHNICAL DATA

Housing: self-extinguishing ABS Case: frontal 32x74 mm; depth 60mm

Mounting: panel mounting in a 71x29mm panel cut-out

Protection: IP20

Frontal protection: IP65

**Connections:** Screw terminal block ≤ 2.5 mm<sup>2</sup> wiring

Power supply: (according to the model) 230Vac  $\pm 10\%$ , 50/60Hz; 110Vac  $\pm 10\%$ , 50/60Hz

Power absorption: 3.5VA max Display: 2 digits, red LED, 14.2 mm high Inputs: up to 3 NTC probes Digital input: free voltage contact

Relay outputs:

Compressor SPST 16(6) A 250Vac Light: SPDT 8(3) A, 250Vac Fan: SPST 5(2) A, 250Vac Data storing: on the non-volatile memory (EEPROM)

Kind of action: 1B Pollution degree: 2 Software class: A Rated impulsive voltage: 2500V Overvoltage Category: II

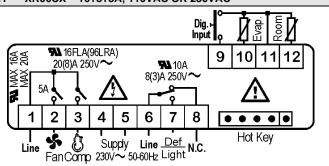
Operating temperature: 0T60°C (32T140°F) Storage temperature: -25T60°C (-13T140°F) Relative humidity: 20 to 85% (no condensing)

Measuring and regulation range: NTC -50T99°C (-67T99°F)

Resolution:  $0.1^{\circ}\text{C}$  or  $1^{\circ}\text{C}$  or  $1^{\circ}\text{F}$  (selectable) Accuracy (ambient temp. 25°C):  $\pm 0.1^{\circ}\text{C} \pm 1$  digit

#### 14 CONNECTIONS

### 14.1 XR06CX - 16+8+5A, 110VAC OR 230VAC



NOTE: Connect the 120Vac power supply to 4-5

	DEFAULT SETTING VAL	UES	
LABEL	DESCRIPTION	RANGE	DEFAULT
REGULA Hy	Differential	0.1 to 25°C; 1 to 45°F	2.0°C
LS	Minimum Set Point	-55°C to SET; -67°F to SET	-55°C
US	Maximum Set Point	SET to 99°C; SET to 99°F	99°C
ot	First probe calibration	-9.9 to 9.9°C; -17 to 17°F	0.0C°
P2	Second probe presence	n; Y	Y
οE	Second probe calibration	-9.9 to 9.9°C; -17 to 17°F	0.0°C
F5	Filter probe enabling	nu; AL; do	AL
od	Outputs activation delay at start up	0 to 99 min	0
AC	Anti-short cycle delay	0 to 50 min	1
CY	Compressor ON time faulty probe	0 to 99 min	15
Cn	Compressor OFF time faulty probe	0 to 99 min	30
do	Stand-by mode function Enable	on; off	on
DISPLAY		,	
CF	Measurement units	°C; °F	°C
rE	Resolution (only for °C)	dE; in	dE
Ld	Default Display	P1; P2; SP	P1
dy	Display delay	0 to 15 min	0
DEFROS		<u> </u>	
td 	Defrost type	EL; in	EL
dL	Level for auto defrost function  Defrost termination temperature first	-55 to 99°C; -67 to 99°F	5.0°C
dE	defrost  Defrost termination temperature lirst Defrost termination temperature second	-55 to 50°C; -67 to 99°F	8.0°C
dS	defrost	-55 to 50°C; -67 to 99°F	8.0°C
id	Interval between defrost cycles	0 to 99 hours	6
Md	Maximum length for first defrost	0 to 99 min	30
MS	Maximum length for second defrost	0 to 99 min	60
dd	Start defrost delay	0 to 99 min	0
dF	Display during defrost	rt; in; SP; dF	It
dt	Drip time	0 to 99 min	0
dP	Defrost at power-on	n; Y	n
FANS	Eans enerating made	cn; on; cY; oY	On
Fd	Fans operating mode  Fans delay after defrost	0 to 99min	On 10
FS	Fans stop temperature	-55 to 50°C; -67 to 99°F	2.0°C
ALARMS		-03 to 30 '0, -07 to 33 T	2.0 0
AU	Maximum temperature alarm	ALL to 99°C; ALL to 99°F	99°C
AL	Minimum temperature alarm	-55°C to ALU; -67°F to ALU	-55°C
FH	Differential for temperature alarm recovery	0.1 to 25.0°C; 1 to 45°F	1.0°C
Ad	Temperature alarm delay	0 to 99min	15
dA	Exclusion of temperature alarm at startup	0 to 99min	90
DIGITAL			
01	First relay Configuration	dF,Fn,AL,Li,Au,nF,db,C2,d2	Li
iP	Digital input polarity	cL; oP	cL
iF	Digital input configuration	EA; bA; do; dF; Au; Hc	Do
di dC	Digital input delay  Compressor and fan status when open	0 to 99min no; Fn; cP; Fc	15 FC
	door		
rd OTHER	Regulation with door open	n; Y	Y
d1	Thermostat probe display	Read Only	
d2	Evaporator probe display	Read Only	
Pt	Parameter code table	Read Only	
	. a.amotor ocac table	rioda Only	

## DIXELL



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