

ELECTRONIC CONTROL



LED	MODE	FUNCTION
	ON	Compressor enabled
	Flashing	Anti-short cycle delay enabled
	ON	Defrost enabled
	ON	An alarm is occurring
	ON	Continuous cycle is running
	ON	Energy saving enabled
°C/°F	ON	Measurement unit
°C/°F	Flashing	Programming phase

SET	To display target set point; in programming mode it selects a parameter or to confirm an operation.
	(DEF) To start a manual defrost
	(UP) To see the max. stored temperature; in programming mode it browses the parameter codes or increases the displayed value.
	(DOWN) To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.
	To switch the instrument off, if on F = off.
	Not enabled

KEY combinations:

	To lock & unlock the keyboard.
SET +	To enter in programming mode.
SET +	To return to the outlet temperature display.

MAIN FUNCTIONS

How to start & stop the chiller

1	Switch on SW0, then press  once, LED symbols light on, and the chiller is ready for operation.
2	press  once (when chiller is in operation), Chiller is on standby mode.

WARNING: Loads connected to the normally closed contacts of the relays are always supplied and under voltage, even if the instrument is in standby mode.

How to check the setpoint

1	Press and immediately release the SET key: the display will show the Set point value;
2	Press and immediately release the SET key or wait for 5 seconds to display the probe value again.

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

How to change a parameter settings

1	Enter the Programming mode by pressing the SET +  keys for 3s (the “°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.

How to enter to the hidden menu

The hidden menu Includes all the parameters of the instrument.

1	Enter the Programming mode by pressing the SET +  keys for 3s (the “°C” or “°F” LED starts blinking).
2	Release the keys, then push again the SET +  keys for more than 7s. The Pr2 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 Pr1, after 3s the “noP” message is displayed. Keep the keys pushed till the Pr2 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 VICE VERSA

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

HOW TO LOCK THE KEYBOARD

1	Keep the UP + DOWN keys pressed for more than 3 seconds.
2	The “ POF ” message will be displayed and the keyboard will be locked. At this point it will be possible only to see the set point.
3	If a key is pressed more than 3s the “POF” message will be displayed.

HOW TO UNLOCK THE KEYBOARD

1	Keep pressed  or  together for more than 3s, till the “ Pon ” message will be displayed.
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Alarm error code

Code	Cause	Outputs
"P1"	Water outlet temperature probe B1 failure	Compressor output acc. to par. "Con" and "COF"
"P3"	Third probe failure	Outputs unchanged
"P4"	Fourth probe failure	Outputs unchanged
"HA"	Maximum temperature alarm	Outputs unchanged.
"LA"	Minimum temperature alarm	Outputs unchanged.
"HA2"	Condenser high temperature	It depends on the "Ac2" parameter
"LA2"	Condenser low temperature	It depends on the "bLL" parameter
"dA"	Door open	Compressor according to rrd
"EA"	External alarm	Output unchanged.
"CA"	Serious external alarm (i1F=bAL)	All outputs OFF.
"CA"	Pressure switch alarm (i1F=PAL)	All outputs OFF

Alarm reset

1	Probe alarms P1 ", P3 and P4 " 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.
2	Temperature alarms "HA" , "LA" "HA2" and "LA2" automatically stop as soon as the temperature returns to normal values.
3	Alarms "CA" (with i1F=bAL) recover as soon as the digital input is disabled. Alarm "CA" (with i1F=PAL) recovers only by switching off and on the chiller.

HL i3 / i5 / i8 parameter setting (XR20CX-GB)

No.	Code	Description	Range	Default	Level	Note
1	Set	set point	LS~US	7	---	
2	Hy	differential	0.1~25.5°C	2	Pr1	
3	LS	minimum set point	-50°C~SET	3	Pr2	
4	US	maximum set point	SET~110°C	30	Pr2	
5	OdS	output delay at startup	0~255 min.	2	Pr2	
6	MdF	minimum length for defrost	0~255 Min.	0	Pr1	
7	i1P	digital input polarity	CL : closing; OP : opening	OP	Pr1	
8	i1F	digital input configuration	EAL, bAL, PAL, Dor, dEF, Htr, AUS	bAL	Pr1	
9	did	digital input alarm delay	0~255 Min.	0	Pr1	