Trouble shooting

TROUBLE	CAUSES	CHECK
The compressor doesn't start	- compressor ON delay	c0, c1 and c2
	- post-defrost dripping running	dd
Temperature over the fixed limits but no alarm signal	- alarm ON delay	Ad, c6, d8
IA, dA alarm signal	- multifunction input open	input status
Alarm connected to the multifunction input not detected	- alarm ON delay	if A4/A5=1/2 check the status of the digital input;
	- parameter program. error	check A7
Defrost not enabled	- defrost cycle too short (dP)	dP, dI
	- interval between defrosts dI=0	
	- end defrost temperature is low	dT
	- evaporator temperature is high	d/ defrosting probe
Manual defrost not enabled (LED def. flashing)	- compressor protection time ON	d9 (select d9=1)
High temperature alarm after defrost	- alarm delay after defrost is short	d8
	- alarm threshold too low	AH
The display also remains locked after the defrost	- room temperature has not reached the set or time d8 has not passed	Reduce d8
After the modification of a parameter the controller continues working with the old values	- the controller has not reached the value	Repeat the programming, turn off and on
For C models: fans don't start	1. a delay has been selected when starting the compressor and the fans	1. C0
	2. if F0=1 or 2 (fans managed by fan controller)	2. F0, d/1, d/2
	- the evaporator is <hot>: you may read the evaporator temperature selecting the parameter d/1; d/2;	
	- dripping in progress;	Fd
	- F1 (fans OFF temperature) low	F1
	- post-dripping delay ON	dd
	3. if F0=0	3. F0
	- F2=1 and the compressor is still	F2
	- dripping ON	Fd
	- post-dripping lock ON	dd

Probe configuration table

/A2.../A4: Probe configuration

Allows configuring the operation mode of probe 2.

/A2 to /A4 = 0 => probe 2 absent;
/A2 to /A4 = 1 => product probe (used for display only);
/A2 to /A4 = 2 => defrost probe;
/A2 to /A4 = 3 => condenser probe.

Anyway probe 2 is used for the calculation of the regulation virtual probe.

Default: /A2 = 2 => defrost probe:

/A2 = 0 on S model;
/A3=0;
/A4=0.

tI: Display on display

Select the probe to be displayed on the controller display.

/tI =1 => Virtual Probe;
/tI =2 => Probe 1;
/tI =3 => Probe 2;
/tI =4 => Probe 3;
/tI =5 => Probe 4;
/tI =6 => do not select

Warning:
- Control is always performed on the virtual control probe;
- if the probe to be displayed is not enabled the display shows "___".

Signals

Code	Event	Description
"dnL"	Signal	Download running
"rCt"	Signal	Enabled to the remote control programming
"Add"	Signal	Automatic address assignment procedure running
"Prt"	Signal	Report being printed
"LrH" , "HrH"	Signal	Enable procedure of: LOW relative humidity, HIGH relative humidity
"ccb" , "ccE"	Signal	Request to: START continuous cycle, END continuous cycle
"dFb" , "dFE"	Signal	Request to: START defrost, END defrost
"On" , "OFF"	Signal	Passing to: ON status, OFF status
"rES"	Signal	Manual reset alarm reset
		HACCP alarms reset
		Temperature monitoring reset

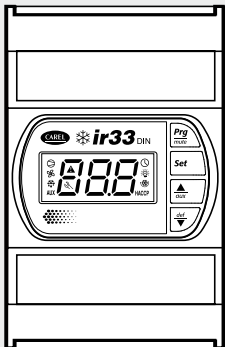The buzzer is enabled if enabled by the parameter "H4".
The alarm relay is enabled if one of the auxiliary 1 and auxiliary 2 outputs ("H1" and "H5") has been given the function of alarm relay (normally closed or open).

Nota: the buzzer is disabled if the controller is connected to the CAREL supervisory system.

Alarm table

Code	Icon on the display	Alarm relay	Buzzer	Reset	Description
"rE"	🔧	ON	ON	automatic	Automatic control probe fault
"E0" , "E1"	🔧	OFF	OFF	automatic	Room probe S1, defrosting probe S2: FAULT
"E2" , "E3" , "E4"	-	OFF	OFF	automatic	Probe S3, S4, S5: FAULT
"_ _"	-	-	OFF	automatic	Probe not enabled
"LO" , "HI"	⚠	ON	ON	automatic	LOW, HIGH temperature alarm
"AFr"	⚠	ON	ON	manual	Antifreeze alarm
"IA" , "dA"	⚠	ON	ON	automatic	IMMEDIATE alarm, DELAYED alarm from external contact
"dEF"	❄	OFF	OFF	automatic	Defrost running
"Ed1" , "Ed2"	-	-	OFF	autom./man.	Evaporator 1 defrost, Evaporator 2 defrost ended for TIMEOUT
"Pd"	🔧	ON	ON	autom./man.	Maximum time pump-down alarm
"LP"	🔧	ON	ON	autom./man.	Low pressure alarm
"AtS"	🔧	ON	ON	autom./man.	Autostart in pump down
"cht"	-	-	OFF	autom./man.	Condenser high temperature pre-alarm
"CHT"	🔧	ON	ON	manual	Condenser high temperature alarm
"dor"	⚠	ON	ON	automatic	Door open for too long alarm
"Etc"	🕐	OFF	OFF	autom./man.	Real time clock fault
"EE" , "EF"	🔧	OFF	OFF	automatic	EEPROM error: UNIT parameters, OPERATING parameters
"HA" , "HF"	HACCP	OFF	OFF	automatic	HACCP alarm: "HA" type, "HF" type
"n1" to "n6"	🔧	ON	ON	automatic	Alarm signal for the units 1 to 6 present in the network
"d1" to "d6"	🔧	OFF	OFF	-	Download signal with errors in the units 1 to 6

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PRG/MUTE BUTTON

Pressing the button alone:
- for pressed than 5" accesses the menu for setting type "F";
- the silences alarm (buzzer) and disables the alarm relay

Pressing together with other buttons:
- for pressed than 5":
  - SET: accesses the menu for setting the type "C";
  - UP/AUX: resets any alarm

Default value reset:
- for pressed than 5" startup:
  - enable the reset procedure.

Automatic address assignment (during supervisory program installation):
- for pressed
  - enters the automatic address assigning procedure.

UP/AUX BUTTON

Pressing the button alone:
- for pressed
  - enables/disables the auxiliary output.

Pressing together with other buttons:
- for pressed than 5":
  - DOWN/DEF: enables/disables the continuous cycle operation;

- SET: start the procedure for printing the reports (if the printer interface is connected to the controller);
  - PRG: resets any active alarm with manual reset.

DOWN/DEF BUTTON

Pressing the button alone:
- for pressed
  - enables/disables a manual defrost (only with the right temperature conditions).

Pressing together with other buttons:
- for pressed
  - UP/AUX: enables/disables the continuous cycle operation;
- for pressed
  - SET: displays a submenu with the HACCP alarm parameters (HA, HAn, HF, HFn)

SET BUTTON

Pressing the button alone:
- for pressed
  - displays and/or set the set point.

Pressing together with other buttons:
- for pressed
  - PRG: accesses the menu for setting the type "C" parameters;
  - UP/AUX: starts the procedure for printing the report (if the printer interface is connected to the controller);
- for pressed
  - DOWN/DEF: displays a submenu with the HACCP alarm parameters (HA, HAn, HF, HFn).

To access the "F" parameters
- the PRG button for more than 5": the display shows the code of the first modifiable "St" parameter.

To access the "C" parameters
1. Press PRG and SET buttons at the same time for more than 5"; the display will show the number "00";

2. Press UP/AUX or DOWN/DEF buttons until display the number "22";

3. Confirm by pressing the SET button; The display shows the code of the first modifiable "/2" parameter.

Modifying the parameters
After having displayed the parameter, either type "C" or type "F", proceed as follows:
1. Press UP/AUX or DOWN/DEF buttons until reaching the parameter to be modified and press SET to display the associated value;

2. Press SET to temporarily save the new value;

3. Press PRG button for more than 5" to definitively save the new values of the modified parameters and thus exiting the parameter setting procedure.