# EMERSON

# Digital controller for medium-low temperature refrigeration applications

## XR75CH

## -Manual for the SW rel. 2.6-

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### I. GENERAL WARNING

### 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 Srl reserves the right to change the composition of its products, even without notice, ensuring the same and unchanged functionality.

### 1.2 A 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.r.l." (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
- In case of applications in industrial environments, the use of mains liners (our mod. FTT) in part with inductive loads could be useful.

### 2. GENERAL DESCRIPTION

Model XR75CH, format 32x74mm, is microprocessor based controller, suitable for applications on medium or low temperature ventilated refrigerating units. It has four relay outputs to control compressor, fan, defrost, which can be either electrical or reverse cycle (hot gas) and light (configurable). It could be provided with a Real Time Clock which allows programming of up to six daily defrost cycles, divided into holidays and workdays. A "Day and Night" function with two different set points is fitted for energy saving. It is also provided with up to four NTC (EU or US type) probe inputs. The first probe is used for temperature control. The second probe is used to control the defrost tempination temperature at the evaporator. One of the two digital inputs can operate as third temperature probe. The fourth probe is used to control the condenser temperature (for condenser alarm management) or to display a temperature.

The RS485 serial output allows connecting the unit to a network line (ModBUS-RTU compatible) such as any **dixell** monitoring units of X-WEB family. The HOT-KEY receptacle allows programming the controller by using the HOTKEY programming device.

The instrument is fully configurable through special parameters that can be easily programmed through the frontal keyboard.

### 3. CONTROLLING LOADS

### 3.1 COMPRESSOR

The regulation is performed according to the temperature measured by the thermostat probe with a positive differential (HY) over the set point: if the temperature increases and reaches set point plus differential, the compressor will start. It will turn off as soon as 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 Con and CoF.

### 3.2 DEFROST

Two defrost modes are available through the "tdF" parameter: defrost through electrical heater (tdF = EL) and hot gas defrost (tdF = in).

The defrost interval depends on the presence of the RTC (optional). The internal RTC is controlled by means of the EdF parameter: - EdF=in, the defrost is made every idF time – standard way for controller without RTC. - EdF=rtC, the defrost is real time controlled, depending on the hours set in the parameters Ld1...Ld6 (for workdays) and in Sd1...Sd6 (for holidays).

Other parameters are used to control defrosting cycles: the maximum length (MdF) and defrosting modes: timed or controlled by the evaporator's probe (P2P).

At the end of defrost dripping time is started, its length is set in the Fdt parameter. With Fdt=0 the dripping time is disabled.

### 3.3 CONTROL OF EVAPORATOR FANS

The fan control mode is selected by means of the **FnC** parameter: **FnC=C\_n**, fans will switch ON and OFF with the compressor and **not run** during defrost **FnC=o** n. 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 "Fnd" parameter. FnC=C\_Y, fans will switch ON and OFF with the compressor and run during defrost. FnC=o\_Y, fans will run continuously also during defrost.

An additional parameter **FSt** 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 **FSt**.

#### 3.3.1 Forced activation of fans

This function managed by the FCt parameter is designed to avoid short cycles of fans, that could happen when the controller is switched on or after a defrost, when the room air warms the evaporator. How it works: if the temperature difference between evaporator probe and room probe is higher than the FCt parameter value, fans will be switched on. With FCt=0 the function is disabled.

### 3.3.2 Cyclical activation of the fans with compressor off.

When FnC=C-n or C-Y (fans working in parallel with the compressor), by means of the Fon and FoF parameters the fans can carry out on and off cycles even if the compressor is switched off. When the compressor is stopped the fans go on working for the Fon time. With Fon=0 the fans remain always off, also when the compressor is off.

### 3.4 LIGHT RELAY CONFIGURATION (PAR. OA2; TERM. 1-2)

The functioning of the auxiliary relay (terminals. 1-4) can be set by the **oA2** parameter, according to the kind of application. In the following paragraph the possible setting:

#### 3.4.1 Light relay

With oA2=LiG the relay 1-2 operates as a light.

#### 3.4.2 Auxiliary relay

a. Relay activation by digital input 2 (oA2=AUS, i2F=AUS)

With oA2=AUS and i2F=AUS the relay 1-2 is switched on and off by digital.

#### b. Auxiliary thermostat

Anti condensing heater with the possibility of switching it on and off also by using the frontal keyboard.

### Parameters involved:

- ACH Kind of regulation for the auxiliary relay: Ht = heating; CL = cooling.
- SAA Set point for auxiliary relay.
- SHy Differential for auxiliary relay
- ArP Probe for auxiliary relay.
   Sdd Auxiliary output off during defrost.

The differential threshold value is set by the  $\ensuremath{\text{SHY}}$  parameter.

NOTE: Set oA2=AUS and ArP=nP (no probe for auxiliary output). In this case the relay 1-2 can be activated only by digital input with i1F=AUS or i2F=AUS.

## 3.4.3 On/off relay (oA2 = onF)

When oA2=onF, the relay is activated when the controller is turned on and de-activated when the controller is turned off.

#### 3.4.4 Neutral zone regulation

With oA2 = db the relay 1-2 can control a heater element to perform a neutral zone action.

- oA2 cut in = [SET-HY]
- oA2 cut out = SET

#### 3.4.5 Alarm relay

With oA2 = ALr the relay 1-2 operates as alarm relay. It is activated every time an alarm happens. Its status depends on the tbA parameter: if tbA=Y, the relay is silenced by pressing any key. If tbA=n, the alarm relay remains on until the alarm condition recovers.

#### 3.4.6 Night blind management during energy saving cycles

With **oA2=HES**, the relay 1-2 operates to manage the night blind: the relay is energised when the energy saving cycle is activated by digital input, frontal button or RTC (optional).

#### 4. FRONT PANEL COMMANDS



SET To display target set point; in programming mode it selects a parameter an operation.	
×ttk	( <b>DEF</b> ) 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.

## Installing and operating instructions

$\triangleleft$	(DOWN) To see the min stored temperature; in programming mode it browses the parameter codes or decreases the displayed value.
Ċ	To switch the instrument on and off (when <b>onF=oFF</b> ).
-Ò-	To switch on and off the light (when <b>oA2=LiG</b> ).

#### **KEY COMBINATIONS:**

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

### 4.1 USE OF LEDS

Each LED function is described in the following table

LED	MODE	FUNCTION
xtx	ON	Compressor enabled
*#*	Flashing	Anti-short cycle delay enabled
xtx	ON	Defrost enabled
****	Flashing	Drip time in progress
	ON	Fans enabled
3	Flashing	Fans delay after defrost in progress.
()	ON	An alarm is occurring
(₩	ON	Continuous cycle is running
ECO	ON	Energy saving enabled
-Q-	ON	Light on
AUX	ON	Auxiliary relay on
°C.	ON	Measurement unit
F	Flashing	Programming phase

### 5. MAX & MIN TEMPERATURE MEMORIZATION

HOW TO: SEE THE MIN TEMPERATURE 51

- 1 Press and release the **DOWN** button.
- The "Lo" message will be displayed followed by the minimum temperature recorded. 2.
- 3. By pressing the DOWN button again or by waiting 5s the normal display will be restored.

#### 5.2 HOW TO: SEE THE MAX TEMPERATURE

- 1. Press and release the UP button
- The "Hi" message will be displayed followed by the maximum temperature recorded. 2.
- 3. By pressing the **UP** button again or by waiting 5s the normal display will be restored.

#### 5.3 HOW TO: RESET THE MAX AND MIN TEMPERATURE RECORDED

- Keep SET button pressed for more than 3s while the max or min temperature is displayed. 1. ("rSt" message will be displayed)
- 2 After confirming the operation, the "rSt" message will start blinking and then the normal temperature will be displayed.

### MAIN FUNCTIONS

#### HOW TO: SET THE CURRENT TIME AND DAY (ONLY WITH RTC) 6.1

When the instrument is switched on, it's necessary to program the time and day.

- Enter the Pr1 programming menu, by pushing SET + DOWN buttons for 3s. 1. 2.
- The rtC parameter is displayed. Push SET button to enter the real time clock menu. 3 The HUr (hours) parameter is displayed.
- 4. Push the SET and set current hour by UP and DOWN buttons, then push SET to confirm the new inserted value.
- 5. Repeat these operations for Min (minutes) and dAy (day) parameters
- To exit: Push SET+UP buttons or wait for 15 sec without pushing any keys.

#### HOW TO: SEE THE SET POINT 6.2

٢	1.	Push and immediately release the SET key: the display will show the	
كمر	2.	Set point value; Push and immediately release the <b>SET</b> key or wait for 5 seconds to display the probe value again.	

## 6.3 HOW TO: CHANGE THE SET POINT

- Push the SET button for more than 2 seconds to change the Set point value.
- The value of the set point will be displayed and the °C or °F LED will start blinking. 3
- To change the actual value, push the UP or DOWN buttons within 10s. 4 To memorise the new set point value, push the SET button again or wait 10s

#### 6.4 HOW TO: START A MANUAL DEFROST



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

#### 6.5 HOW TO: CHANGE A PARAMETER VALUE

To change a parameter value, operate as follows

- 1. Enter the Programming mode by pressing the SET + DOWN buttons for 3s (the °C or °F LED will start blinking).
- 2 Select the required parameter. Press the SET button to display its actual value.
- 3. Use UP or DOWN buttons to change its value.
- Press SET button to store the new value and move to the following parameter.

To exit: Press SET + UP buttons or wait for 15s without pressing any key

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

#### 6.6 THE HIDDEN MENU

#### The hidden menu includes all the parameters of the instrument.

6.6.1 HOW TO: ENTER THE HIDDEN MENU

- 1. Enter the Programming mode by pressing the SET + DOWN buttons for 3s (the °C or °F LED will start blinking).
- 2. Released the buttons and then push again the SET + DOWN buttons for more than 7s. The Pr2 label will be displayed immediately followed from the HY parameter. Now it is possible to browse the hidden menu.
- 3 Select the required parameter
- Press the SET button to display its value.
- 5. Use UP or DOWN to change its value.
- 6. Press SET to store the new value and move to the following parameter.

To exit: Press SET + DOWN or wait 15s without pressing a key

NOTE1: if no parameter is present in Pr1 menu, after 3s the "noP" message will be displayed. Keep the buttons pushed till the Pr2 message will be displayed.

NOTE2: the set value is stored even when the procedure is exited by waiting for the time-out to expire

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

Each parameter present in the hidden menu (Pr2) can be moved into the user level (Pr1) by pressing SET + DOWN buttons. If a parameter is part of the user level, when showed in the hidden menu the decimal point will be lit

### 6.7 HOW TO: LOCK THE KEYBOARD

- Keep both UP and DOWN buttons pressed for more than 3s. 1
- 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 or the MAX o Min temperature stored
- 3 If a button is pressed more than 3s the "PoF" message will be displayed.

### 6.8 HOW TO: UNLOCK THE KEYBOARD

Keep both UP and DOWN pressed for more than 3s till the "Pon" message will be displayed.

### 6.9 THE CONTINUOUS CYCLE

When defrost is not in progress, it can be activated by keeping the UP button pressed for about 3 seconds. The compressor operates to maintain the CCS set point for the time set through the CCt parameter. The cycle can be terminated before the end of the set time using the same activation button (UP for 3 seconds)

### 6.10 THE ON/OFF FUNCTION



When "onF=oFF", pushing the ON/OFF key, the instrument is switched off. The "OFF" message is displayed. In this configuration, the regulation is disabled. To switch the instrument on, push again the ON/OFF key

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

### 7. PARAMETERS

#### RTC rtC Real time clock menu (only for controller with RTC): to set the time, date and defrost start time REGULATION ΗY Differential: (0.1 to 25.5°C; 1 to 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: (-50°C to SET; -58°F to SET) sets the minimum value for the set point. US Maximum set point: (SET to 110°C; SET to 230°F) set the maximum value for set point. ot Thermostat probe calibration: (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible offset of the thermostat probe. P2P Evaporator probe presence: (n; Y) n = not present, the defrost stops by time; Y = present, the defrost stops by temperature Evaporator probe calibration: (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible οE offset of the evaporator probe P3P Third probe presence (P3): (n; Y) n = not present, the terminals 18-20 operate as digital input; Y = present, the terminals 18-20 operate as third probe. ο3 Third probe calibration (P3): (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible offset of the third probe. P4P Fourth probe presence: (n; Y) n = Not present; Y = present. Fourth probe calibration: (-12.0 to 12.0°C; -21 to 21°F) allows to adjust possible o4 offset of the fourth probe. odS Outputs activation delay at start up: (0 to 255min) 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

# Dixell

## Installing and operating instructions

SAA

SHY

auxiliary output set point.

#### Ξ

Set Point for auxiliary relay: (-50 to 110.0°C; -58 to 230°F) it defines the room

temperature set point to switch auxiliary relay. Differential for auxiliary output: (0.1 to 25.5°C; 1 to 45°F) intervention differential for

<ul> <li>Percentage of the second and first probe for regulation: (0 to 100; 100; PE) 0=P2) it allows to set the regulator according to the percentage of the first and second probe. as for the following formula (rtr(P1-P2)100 + P2).</li> <li>Compressor ON time during continuous cycle. (0.0 to 24h00min, res. 10min) allows to set the length of the continuous cycle. (50 to 120°C; (58 to 230°F) it sets the set point used during the continuous cycle. (50 to 1255min) time during which the compressor is active in case of faulty thermostat probe. With Con=0 compressor is active in case of faulty thermostat probe. With Con=0 compressor is active.</li> <li>PLAY</li> <li>F Temperature 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, et , ALU and ALL have to be checked and modified (if necessary).</li> <li><b>ERSolution (for °C):</b> (in=1°C; dE=0.1°C) allows decimal point display.</li> <li><b>Instrument display:</b> (P1, P2, P3, P4, SET, dtr) it selects which probe is displayed by the instrument.P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (ny) for model with this option enabled]; P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li><b>LY Display delay:</b> (10 cold*art it allows to set the visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of visualization.</li> <li><b>LY Display delay:</b> (10 cold*art it allows to set the visualization according to the percentage of visualization.</li> <li><b>P Orcentage of the second termination:</b> (10; P1; P1; P2; P3; P4) HP = no probe; P1 = Third probe; P2 = evaporotor probe; P3 = Third probe; P4 = Probe on thorks set the re</li></ul>		Anti-snort cycle αelay: (υ to 50min) minimum interval between the compressor stop and the following restart.			
<ul> <li>Cct Compressor ON time during continuous cycle. Corpressor stays on without interruption during CCt time. This is useful, for instance, when the room is filed with new products.</li> <li>Ccs Set point for continuous cycle. (50 to 110°C; (58 to 230°F) it sets the set point used during the continuous cycle. (50 to 255min) time during which the compressor is active in case of faulty themostat probe. With Con=0 compressor is always OFF.</li> <li>Ccompressor OFF time with faulty probe: (0 to 255min) time during which the compressor is OFF in case of faulty themostat probe. With CoF=0 compressor is always active.</li> <li>SPLAY</li> <li>Temperature measurement unit: (°C; °F) °C = Colsius: °F = Fahrenheit.</li> <li>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 (fi necessary).</li> <li>ES Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C;</li></ul>	tr	Percentage of the second and first probe for regulation: (0 to 100; 100=P1, 0=P2) it allows to set the regulation according to the percentage of the first and second probe, as for the following formula (rtr(P1-P2)/100 + P2).			
<ul> <li>Set point for continuous cycle: (-50 to 110°C; (-58 to 230°F) it sets the set point used during the continuous cycle.</li> <li>Compressor ON time with faulty probe: (0 to 255min) time during which the compressor is ofFF.</li> <li>Compressor OFF time with faulty probe: (0 to 255min) time during which the compressor is OFF in case of faulty thermostal probe. With CoF=0 compressor is always active.</li> <li>SPLAY</li> <li>Temperature measurement unit: (°C; °F) °C = Celsius; °F = Fahrenheit.</li> <li>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 (if necessary).</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Instrument display: (P1, P2, P3, P4, SET, dtr) it selects which probe is displayed by the instrument. P1 = Thermostat probe. P2 = Evaporato probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>VAEP display (optional): (P1, P2, P3, P4, SET, dtr) it selects which probe is displayed by X. REP, P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>VI Displayed of 1°C on 1°F fatter this time.</li> <li>Percentage of the sacond and first probe for visualization when Lod-dtr: (10 59; 100°F1, 0=F2); (1C; in) TC = Real Time Clock mode.</li> <li>Defrost time follows: Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. In = interwast mode, P2 = evaporator probe; P3 = Third effect.</li> <li>Defrost tremisation temperature: (-50 to 50°C; -58 to 122°F) (enabled only when EdF=P3) sets the temperature; (-50 to 50°C; -58 to 122°F) (enabled only when EdF=P3) sets the temperature: (-50 to 50°C; -58 to 122°F) (enab</li></ul>	CCt	Compressor ON time during continuous cycle: (0.0 to 24h00min, res. 10min) allows to set the length of the continuous cycle. Compressor stays on without interruption during CCt time. This is useful, for instance. when the room is filled with new products			
<ul> <li>Compressor ON time with faulty probe: (0 to 255min) time during which the compressor is active in case of faulty thermostat probe. With Con=0 compressor is always active.</li> <li>SPLAY</li> <li>Formparture measurement unit: (°C; "F) °C = Calsius; °F = Fahrenheit.</li> <li>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 (if necessar).</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Instrument display: (T): P2, P3, P4, SET, dt) it selects which probe is displayed by for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>K-REP display (optional): (P1; P2, P3, P4, SET, dt) it selects which probe is displayed by for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>K-REP display (optional): (P1; P2, P3, P4, SET, dt) it selects which probe is displayed by is updated of 1°C or 1°F after this time.</li> <li>Percentage of visualization.</li> <li>MY</li> <li>Display delay: (D to 20min05; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this time.</li> <li>Percentage of the second and first probe for visualization according to the percentage of the distost stark when the time idf is expired.</li> <li>Defrost mode (only for controller with RTC); (rtC; in) rtC = Real Time Clock mode. Defrost time follows Ld to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. In interval mode. The defrost termination (ref) P1 P2; P3; P4) P = no probe; P1 = thermostat probe; P2 = evoporator probe; P3 = configurable probe; P4 = Probe on Hol Key plug.</li> <li>Percote steeletion for defrost termination: (ref) P1; P2; P3; P4) P = no probe; P1 = thermostat probe; P2 = evoporator probe; Sd1 = het result of time between the end of defrost.</li> <li>Met Key plug.</li>     &lt;</ul>	ccs	Set point for continuous cycle: (-50 to 110°C; (-58 to 230°F) it sets the set point used during the continuous cycle.			
<ul> <li>Corpressor OFF time with faulty probe: (0 to 255min) time during which the compressor is OFF in case of faulty thermostat probe. With CoF=0 compressor is always active.</li> <li>SPLAY</li> <li>Temperature measurement unit: (*C; *F) °C = Celsius; °F = Fahrenheit.</li> <li>WARNING: When the measurement unit is changed the SET point and the values of the parameters HY, LSU, Sot, ALU and ALL have to be checked and modified (in necessary).</li> <li>Resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Instrument display: (P1; P2, P3, P4, SET, dr) it selects which probe is displayed by the instrument. P1 = Thermostat probe; P2 = Exaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>AREP display (p0:10aal): (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by with subdate of 1°C or 1°F after this function.</li> <li>Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this function according to the percentage of the second and first probe for visualization when Lod=dtr: (0 to 99; 100=P1). OF201 it Lod=dtr: 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).</li> <li>Defrost mode (only for controller with RTC); (rtC; in) rtC = Real Time Clock mode. Defrost termination: (m2; P1; P2; P3; P4) mP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Key plug.</li> <li>Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only when EdF=PD) ests the temperature: (-50 to 50°C; -58 to 122°F) (enabled only when edferost termination temperature is set point, dtr = dtF) table.</li> <li>MaX display delay after defrost: (0 to 255min) when P2P=Y (defrost. Termination temperature) is useful when different defrost start times are</li></ul>	Con	Compressor ON time with faulty probe: (0 to 255min) time during which the compressor is active in case of faulty thermostat probe. With Con=0 compressor is always OFF.			
<ul> <li>Entroy Burket.</li> <li>SPLAY</li> <li>CF Temperature measurement unit: ("C; "F) "C = Celsius; "F = Fahrenheit.</li> <li>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 (if necessary).</li> <li>Resolution (for "C): (in=1*C; dE=0.1*C) allows decimal point display.</li> <li>Lod Instrument display: (Pi; 1P, 2P, 3P, 4P, SET, dtr) is desicts which probe is displayed by the instrument. P1 = Thermostat probe; P2 = Evaporator probe, P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>A.REP display (optional): (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by X. REP. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>dLY Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1*C or 1* after this time.</li> <li>dtr = Porcentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for visualization according to the percentage of the second and first probe for the forst second and first probe for the second and first probe probe; P4 = Prob to the forst time follows Ld1 to Ld5 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time IdF is expired.</li> <li>dFP Derfost type: (EL; in) EL = electrical heater; in = hot gas.<td>CoF</td><td>Compressor OFF time with faulty probe: (0 to 255min) time during which the compressor is OFF in case of faulty thermostat probe. With CoF=0 compressor is always active</td></li></ul>	CoF	Compressor OFF time with faulty probe: (0 to 255min) time during which the compressor is OFF in case of faulty thermostat probe. With CoF=0 compressor is always active			
<ul> <li>CF Temperature measurement unit: (°C; °F) °C = Celsius; °F = Fahrenheit. WARNNO: 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 (if necessary).</li> <li>resolution (for °C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Instrument display: (P1; P2, P3, P4, SET, dr) it selects which probe is displayed by the instrument. P1 = Thermostat probe; P2 = Evaporator probe, P3 = Third probe (only for mode) with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>X-REP display (optional): (P1; P2, P3, P4, SET, dr) it selects which probe is displayed by X-REP. P1 = Thermostat probe; P2 = Evaporator probe, P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>dLY Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this time.</li> <li>dtr Percentage of the second and first probe for visualization when Lod=dtr: (0 to 99; 100=P1, 0=P2) if Lod=dtr it allows to set the visualization according to the percentage of the second and first probe for visualization according to the percentage of the second probe, as for the following formula (dtr(P1-P2)/100 + P2).</li> <li>FROST</li> <li>EdF Defrost mode (only for controller with RTC); (rtC; in) rtC = Real Time Clock mode. Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time idF is expired.</li> <li>dEF Pb joets the temperature measured by the evaporator probe; P4 = Probe on Plot Key Plug.</li> <li>dtF Defrost termination temperature: (50 to 50°; -53 to 122°; f) (enabled only when EdF=Pb) sets the temperature (core) cosis = configurable probe; P4 = Probe on Plot Key Plug.</li> <li>dtf Maximum) length for defrost: (0 to 255min) when P2P=n, (not evapo</li></ul>	SPLA	4			
<ul> <li>WARINIG: 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 (if necessary).</li> <li>Resolution (for *C): (in=1°C; dE=0.1°C) allows decimal point display.</li> <li>Lod Instrument display: (P1; P2, P3, P4, SET, dr) it selects which probe is displayed by the instrument. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>K-REP display (optional): (P1; P2, P3, P4, SET, dr) it selects which probe is displayed by X-REP. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>dLY Display delay: (0 to Zonin005; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this time.</li> <li>dtr Dercatage of the second and first probe for visualization according to the percentage of the first and second probe, as for the following formula (dtr(P1-P2)/100 + P2).</li> <li>FROST</li> <li>EdF Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode. Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost tarts when the time idF is expired.</li> <li>dtF Defrost trope: (P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Key plug.</li> <li>dtE Defrost termination: (PP; P1; P2, P3; P4) NP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Key plug.</li> <li>dtf Interval between defrost cycles: (0 to 255min) when P2P=P1 (defrost end based on temperature) its set the maximum length for defrost.</li> <li>dtf Maximum) length for defrost: (0 to 255min) when P2P=P1 (defrost start times are necesary to avoid overdoading the plant.</li> <li>dtG</li>     &lt;</ul>	CF	Temperature measurement unit: (°C; °F) °C = Celsius; °F = Fahrenheit.			
<ul> <li>Resolution (for *C): (in=1*C; dl=0.1*C) allows decimal point display.</li> <li>Lod Instrument display: (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by the instrument P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>rEd X-REP display (optional): (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by X. REP. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe. SET = set point; dtr = percentage of visualization.</li> <li>dLY Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1*C or 1*F after this time.</li> <li>Percentage of the second and first probe for visualization according to the percentage of the first and second probe, as for the following formula (dtr(P1-P2)/100 + P2).</li> <li>FROST</li> <li>EdF Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode. Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time lef is expired.</li> <li>Defrost type: (EL; in) EL = electrical heater; in = hot gas.</li> <li>dFP Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 = hermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Kay plug.</li> <li>dtE Defrost termination temperature: (-50 to 50*C; -58 to 122*F) (enabled only when EdF=Pb) sets the temperature measured by the evaporator probe; W1 = Probe in Hot Kay plug.</li> <li>dtE Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.</li> <li>dtG Interval between defrost cycles: (0 to 255min) when P2P=r, (not evaporator probe; time defrost jut; sets the defrost duration. When P2P=Y1 (defrost end based on themperature) is sets the defrost duration. When P2P=Y2 (defrost e</li></ul>	-	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 (if necessary).			
<ul> <li>Lod instrument P1 = Thermosta probe: P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li><b>FEd</b> X-REP display (optional): (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by X-REP. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li><b>dLY</b> Display (delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this time.</li> <li><b>dtr</b> Percentage of the second and first probe for visualization according to the percentage of the first and second probe, as for the following formula (dtr(P1-P2)/100 + P2).</li> <li><b>EFROST</b></li> <li><b>EdF</b> Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode. Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time idF is expired.</li> <li><b>dtF</b> Defrost tremostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Key plug.</li> <li><b>dtE</b> Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only when Edf=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost 10 the orderost starts. Start duration. When P2P=n (defrost termination temperature; (-50 to 50°C; -58 to 122°F) (enabled only when Edf=Pb) sets the temperature: (-50 to 50°C; -58 to 122°F) (enabled only when edforest start; SET = set point; dEf Temperature) is the site maximum length for defrost.</li> <li><b>dta defrost defrost defrost cycles:</b> (0 to 120hours) determines the interval of time between two defrost start; SET = set point; dEf = "dEF" label.</li> <li><b>dta defrost defrost defrost start; SET</b> = set point; defrost termination temperature display.</li> <li><b>fint defrost after start</b>; (C; (C; (C)</li></ul>	ES	<b>Resolution (for °C):</b> (in=1°C; dE=0.1°C) allows decimal point display.			
<ul> <li>Ed X-REP display (optional): (P1; P2, P3, P4, SET, dtt) it selects which probe is displayed by X- REP. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.</li> <li>dLY Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this time.</li> <li>Percentage of the second and first probe for visualization when Lod=dtr: (0 to 99; 100=P1, 0=P2) if Lod=dtr it 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).</li> <li>EFROST</li> <li>EdF Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time idF is expired.</li> <li>dIF Defrost type: (EL; in) EL = electrical heater, in = hot gas.</li> <li>dFP Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Hot Key plug.</li> <li>dtE Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only when EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.</li> <li>df Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.</li> <li>MdF (Maximum) length for defrost: (1 to 255min) when P2P=Y (defrost end based on temperature) it sets the defrost duration. When P2P=Y, (defrost termination temperature) it sets the defrost duration. When P2P=Y (defrost termination temperature); it sets the defrost duration. When D4P=Y (defrost termination; C+Y; 0+Y) C+n = real temperature;</li> <li>fdf Interval between defrost start SET = set point; (dEF = dEF) tabel.</li> <li>dAd MAX display delay after defrost: (0 to 255min) sets the maximum time betw</li></ul>	_od	instrument display: (P1; P2, P3, P4, SE1, dtr) it selects which probe is displayed by the instrument. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.			
dLY       Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1°C or 1°E after this time.         dtr       Percentage of the second and first probe for visualization when Lod=dtr: (0 to 99; 100=P1, 0=P2) if Lod=dtr it 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).         EFROST       Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time idF is expired.         tdF       Defrost type: (EL; in) EL = electrical heater; in = hot gas.         dFP       Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe on Holt Key plug.         dtE       Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only when EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.         idf       Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.         MdF       (Maximum) length for defrost: (1 to 255min) when P2P=n, (not evaporator probe; timed defrost it is the defrost duration. When P2P=Y (defrost start times are necessary to avdi) volo reloaging the plant.         dEdd       MAX display delay after defrost: (2 to 255min) sets the maximum time between the end of defrost.         dFd       Temperature diafost start; SEt = set point; dEF = rdEF label.	Ed	X-REP display (optional): (P1; P2, P3, P4, SET, dtr) it selects which probe is displayed by X-REP. P1 = Thermostat probe; P2 = Evaporator probe; P3 = Third probe (only for model with this option enabled); P4 = Fourth probe, SET = set point; dtr = percentage of visualization.			
dtr         Percentage of the second and first probe for visualization according to the percentage of the first and second probe, as for the following formula (dtr(P1-P2)/100 + P2).           EERST           EEdF         Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time idF is expired.           LdF         Defrost type: (EL; in) EL = electrical heater; in = hot gas.           dFP         Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe or Hot Key plug.           dtE         Defrost tremination temperature: (-50 to 50°C; -58 to 122°F) (enabled only when EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.           Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles:.           MdF         (Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe; timed defrost) it sets the defrost duration. When P2P=r) (defrost end based on temperature; it sets the defrost duration defrest start times are necessary to avoid overloading the plant.           dfd         Temperature displayed during defrost: (1; it; SEt; dEF) rt = real temperature; it = temperature at defrost start; SET = set point; dEF = "dEF" label.           ddAd         MAX display delay after defrost. (1 to 255min) sets the maximum time between the end of defrost after start-up; (n; Y) n = after the idf time, Y = immediately.	ΊLΥ	Display delay: (0 to 20min00s; res. 10s) when the temperature increases, the display is updated of 1°C or 1°F after this time.			
EFROST         Edf       Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time idF is expired.         dtF       Defrost type: (EL; in) EL = electrical heater; in = hot gas.         dFP       Probe selection for defrost termination: (n?; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe or Hot Key plug.         dtE       Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only wher EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.         dtF       Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.         MdF       (Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe; timed defrost) it sets the maximum length for defrost.         dSd       Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.         dAdd       MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the centrol's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.         dFn       Fans operating mode: (C-n; o-n; C-Y; o-Y) C-n = runs with the compressor, OFF during defrost; o-n = continuous wode, OFF during defrost.       CPF = nus with the compressor, ON during defrost: (0 to 255min) interval between the dide tort.	dtr	Percentage of the second and first probe for visualization when Lod=dtr: (0 to 99; 100=P1, 0=P2) if Lod=dtr it 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).			
<ul> <li>EdF Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays. in = interval mode. The defrost starts when the time idF is expired.</li> <li>dF Defrost type: (EL; in) EL = electrical heater; in = hot gas.</li> <li>JFP Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe or Hot Key plug.</li> <li>Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only wher EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.</li> <li>dF (Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe: timed defrost) it sets the defrost duration. When P2P=r) (defrost end based on temperature) it sets the defrost: undit of defrost.</li> <li>Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.</li> <li>dF Temperature displayed during defrost: (1 to 255min) sets the maximum time between the end of defrost and the restarting of the control's normal operation. This time allows the evaporator to liminate water drops that might have formed due to defrost.</li> <li>dFd Drip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator terminate water drops that might have formed due to defrost.</li> <li>dFo First defrost defrost: (0 to 255min) interval between the defrost.</li> <li>dFd Drip time: (0 to 120min) time interval between reaching defrost.</li> <li>dFd Temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.</li> <li>dFd Temperature and the fast freezing cycle and the following defrost.</li> <li>dFd Drip time: (0 to 120min) time interval between end of def</li></ul>	FRO	т Т			
<ul> <li>in = interval mode. The defrost starts when the time idF is expired.</li> <li>dF Defrost type: (EL; in) EL = electrical heater; in = hot gas.</li> <li>HFP Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 = thermostat probe; P2 = evaporator probe; P3 = configurable probe; P4 = Probe or Hot Key plug.</li> <li>Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only wher EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.</li> <li>Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.</li> <li>(Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe: timed defrost) it sets the defrost duration. When P2P=Y (defrost end based on temperature) it sets the maximum length for defrost.</li> <li>Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.</li> <li>Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature at defrost start; SEt = set point; dEF = "dEF" label.</li> <li>MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.</li> <li>First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.</li> <li>Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost. C-Y = runs with the compressor, ON during defrost: (0 to 255min) interval between end of defrost and evaporator fans start.</li> <li>Fans operating mode: (C-n; o-n; C-Y; o-Y) C-n = runs with the compressor, OFF for for function disabled) if the difference of temperature between the evaporator fans start.</li> <li>Fans stop tempe</li></ul>	dF	Defrost mode (only for controller with RTC): (rtC; in) rtC = Real Time Clock mode. Defrost time follows Ld1 to Ld6 parameters on workdays and Sd1 to Sd6 on holidays.			
<ul> <li>dFP Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 =thermostat probe; P2 = evaporator probe; P3 =configurable probe; P4 = Probe or Hot Key plug.</li> <li>dE Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only wher EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.</li> <li>Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.</li> <li>MMF (Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe timed defrost) it sets the defrost duration. When P2P=n, (not evaporator probe timed defrost) it sets the defrost duration. When P2P=Y (defrost end based on temperature) it sets the maximum length for defrost.</li> <li>Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.</li> <li>dFd Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature at defrost start; SEt = set point; dEF = "dEF" label.</li> <li>MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.</li> <li>Fdt Drip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.</li> <li>dAF Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost; c-Y = runs with the compressor, ON during defrost; o-Y = continuous mode, ON during defrost.</li> <li>Fans delay after defrost: (0 to 255min) interval between end of defrost and evaporator fans start.</li> <li>Fans stop temperature: (-50 to 50°C; o-51 to 120°F), setting of temperature or and the room probes is higher than FCt</li></ul>	dF	<ul> <li>In = interval mode. The defrost starts when the time idF is expired.</li> <li>Defrost type: (EL; in) EL = electrical heater; in = hot cas.</li> </ul>			
<ul> <li>Hot Key plug.</li> <li>Het Key plug.</li> <li>Itte Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only wher EdF=Pb) sets the temperature measured by the evaporator probe, which causes the end of defrost.</li> <li>Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.</li> <li>Interval between defrost cycles: (0 to 255min) when P2P=n, (not evaporator probe timed defrost) it sets the maximum length for defrost.</li> <li>Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.</li> <li>IFd Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature at defrost start; SEt = set point; dEF = 'dEF" label.</li> <li>MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.</li> <li>Fdt Drip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.</li> <li>IPO First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.</li> <li>IAF Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost.</li> <li>INS</li> <li>FnC Fans operating mode: (C-n; o-n; C-Y; o-Y) C-n = runs with the compressor, OFF during defrost: o-n = continuous mode, OFF during defrost cord devaporator fans start.</li> <li>Fct Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FC1=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.</li> <li>Fan stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans</li></ul>	IFP	Probe selection for defrost termination: (nP; P1; P2; P3; P4) nP = no probe; P1 =thermostat probe; P2 = evaporator probe; P3 =configurable probe; P4 = Probe on			
<ul> <li>end of defrost.</li> <li>Interval between defrost cycles: (0 to 120hours) determines the interval of time between two defrost cycles.</li> <li>MdF (Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe timed defrost) it sets the defrost duration. When P2P=Y (defrost end based or temperature) it sets the maximum length for defrost.</li> <li>Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.</li> <li>JFd Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature at defrost start; SEt = set point; dEF = "dEF" label.</li> <li>MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the control's normal operation display.</li> <li>Drip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.</li> <li>First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.</li> <li>Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost.</li> <li>NS</li> <li>FinC Fans operating mode: (C-n; o-n; C-Y; o-Y) C-n = runs with the compressor, OFF during defrost; o-n = continuous mode, OFF during defrost: (0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.</li> <li>Fst as stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.</li> <li>Fan SON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with</li></ul>	ltE	Defrost termination temperature: (-50 to 50°C; -58 to 122°F) (enabled only when EdF=Pb) sets the temperature measured by the evaporator probe, which causes the			
<ul> <li>between two defrost cycles.</li> <li>MAF         <ul> <li>(Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe timed defrost) it sets the defrost duration. When P2P=Y (defrost end based or temperature) it sets the maximum length for defrost.</li> </ul> </li> <li>Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.</li> <li>Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature at defrost start; SEt = set point; dEF = "dEF" label.</li> <li>MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.</li> <li>Torip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.</li> <li>Po First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.</li> <li>Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost: c-Y = runs with the compressor, OFF during defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor, OF as start.</li> <li>Fans delay after defrost: (0 to 255min) interval between end of defrost and evaporator fans start.</li> <li>Fans start.</li> <li>Fans stop temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.</li> <li>Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.</li> <li>Fan ON time: (0 to 15min) with Fnc=C_</li></ul>	dF	end of defrost. Interval between defrost cycles: (0 to 120hours) determines the interval of time			
<ul> <li>temperature) it sets the maximum length for defrost.</li> <li>Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant.</li> <li>Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature displayed during defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.</li> <li>Drip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.</li> <li>First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.</li> <li>Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost: C-Y = runs with the compressor, OFF during defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor, ON during defrost; o-Y = continuous mode, ON during defrost.</li> <li>Fans delay after defrost: (0 to 255min) interval between the evaporator fans start.</li> <li>Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.</li> <li>Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.</li> <li>Fan ON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.</li> </ul>	٨dF	between two defrost cycles. (Maximum) length for defrost: (0 to 255min) when P2P=n, (not evaporator probe: timed defrost) it sets the defrost duration. When P2P=Y (defrost end based on			
dFd       Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature displayed during defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.         dAd       MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.         Fdt       Drip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.         dPo       First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.         Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost related to it.         NNS       FnC       Fans operating mode: (C-n; o-n; C-Y; o-Y) C-n = runs with the compressor, OFF during defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor, ON during defrost; o-Y = continuous mode, ON during defrost.         Fnd       Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.         Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.         Fan ON time: (0 to 15min) with Fnc=C_n	dSd	temperature) it sets the maximum length for defrost. Start defrost delay: (0 to 99min) this is useful when different defrost start times are necessary to avoid overloading the plant			
dAd       MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.         Fdt       Drip time: (0 to 120min) time interval between reaching defrost termination temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.         dPo       First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.         dAF       Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost related to it.         INS       First defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor, OFF during defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor, ON during defrost; o-Y = continuous mode, ON during defrost.         Fnd       Fans delay after defrost: (0 to 255min) interval between end of defrost and evaporator fans start.         Fct       Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.         Fst       Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.         Fon       Fan SON time: (0 to 15min) with Fnc=C_n or C_Y (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.	dFd	necessary to avoid overloading the plant. Temperature displayed during defrost: (rt; it; SEt; dEF) rt = real temperature; it = temperature at defrost start; SEt = set point; dEF = "dEF" label.			
Drip time:       (0 to 120min) time interval between reaching derrost terminator temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.         dPo       First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.         dAF       Defrost delay after continuous cycle:       (0.0 to 24h00min, res. 10min) time interval between the end of the fast freezing cycle and the following defrost related to it.         INS       First defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor, OFF during defrost; o-n = continuous mode, OFF during defrost.         Find       Fans delay after defrost: (0 to 255min) interval between end of defrost and evaporator fans start.         Fct       Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.         Fst       Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.         Fon       Fan ON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.	dAd	MAX display delay after defrost: (0 to 255min) sets the maximum time between the end of defrost and the restarting of the real room temperature display.			
dPo         First defrost after start-up: (n; Y) n = after the idF time, Y = immediately.           Defrost delay after continuous cycle: (0.0 to 24h00min, res. 10min) time interva between the end of the fast freezing cycle and the following defrost related to it.           NS           FnC         Fans operating mode: (C-n; o-n; C-Y; o-Y) C-n = runs with the compressor, OFF during defrost; o-n = continuous mode, OFF during defrost; C-Y = runs with the compressor, ON during defrost; o-Y = continuous mode, ON during defrost.           Fnd         Fans delay after defrost: (0 to 255min) interval between end of defrost and evaporator fans start.           Fct         Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: if FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.           Fst         Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.           Fon         Fan ON time: (0 to 15min) with Fnc=C_n or C_Y. (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.	Tui	temperature and the restoring of the control's normal operation. This time allows the evaporator to eliminate water drops that might have formed due to defrost.			
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<ul> <li>The solution of the second seco</li></ul>	nC	Fans operating mode: (C-n: o-n: C-Y: o-Y) C-n = runs with the compressor OEE			
<ul> <li>For an delay after defrost: (0 to 255min) interval between end of defrost and evaporator fans start.</li> <li>For Temperature differential to avoid fan short cycles: (0 to 59°C; 0 to 90°F) (N.B.: in FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.</li> <li>Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.</li> <li>Fan ON time: (0 to 15min) with Fnc=C_n or C_Y. (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.</li> </ul>		during defrost; o-n = continuous mode, OFF during defrost. C-Y = runs with the compressor, ON during defrost; o-Y = continuous mode, ON during defrost.			
<ul> <li>For perature dimerentian to avoid fan snort cycles: (0 to 59°C; 0 to 90°F) (N.B.: If FCt=0 function disabled) if the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.</li> <li>For stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.</li> <li>Fan ON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.</li> </ul>	-nd	Fans delay atter detrost: (0 to 255min) interval between end of defrost and evaporator fans start.			
<ul> <li>Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.</li> <li>Fan ON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.</li> </ul>	-ct	For the result of the difference of temperature between the evaporator and the room probes is higher than FCt value, the fans will be switched on.			
Fon Fan ON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off.	St	Fans stop temperature: (-50 to 50°C; -58 to 122°F) setting of temperature, detected by evaporator probe, above which fans are always OFF.			
With Fon=0 and FoF≠0 the fan are always off, with Fon=0 and FoF=0 the fan are	Fon	Fan ON time: (0 to 15min) with Fnc=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator fan ON cycling time when the compressor is off. With Fon=0 and FoF≠0 the fan are always off, with Fon=0 and FoF=0 the fan are			
always off. FoF Fan OFF time: (0 to 15min) With FnC=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator		always off. Fan OFF time: (0 to 15min) With FnC=C_n or C_Y, (fan activated in parallel with compressor) it sets the evaporator			
fan off cycling time when the compressor is off. With <b>Fon=0</b> and <b>FoF≠0</b> the fan are always off, with <b>Fon=0</b> and <b>FoF=0</b> the fan are always off	FoF				
FAP         Probe selection for fan management: (nP; P1; P2; P3; P4) nP = no probe;           P1 =thermostat probe; P2 = evaporator probe; P3 =configurable probe; P4 = Probe on	FoF	tan oft cycling time when the compressor is off. With Fon=0 and FoF≠0 the fan are always off, with Fon=0 and FoF=0 the fan are always off			

	ACH=CL, AUX Cut in is [SAA+SHY]; AUX Cut out is SAA.     ACH=Ht AUX Cut in is [SAA-SHY]; AUX Cut out is SAA.		
ArP	Probe selection for auxiliary: (nP; P1; P2; P3; P4) nP = no probe, the auxiliary relay		
	is switched only by the digital input; P1 = Probe 1 (Thermostat probe); P2 = Probe 2		
0.14	(evaporator probe); <b>P3</b> = Probe 3 (display probe); <b>P4</b> = Probe 4.		
500	Auxiliary relay off during defrost: (n; Y) n = the auxiliary relay operates during defrost		
	$\mathbf{Y}$ = the auxiliary relay is switched off during defrost.		
	ş		
	Parks selection for element (-D. D4, D0, D4) and a second the transmission		
ALP	alarms are disabled; <b>P1</b> = Probe 1 (Thermostat probe); <b>P2</b> = Probe 2 (evaporator probe); <b>P3</b> = Probe 3 (display probe); <b>P4</b> = Fourth probe.		
ALC	Temperature alarms configuration: (Ab; rE) Ab = absolute temperature, alarm temperature is given by the ALL or ALU values. rE = temperature alarms are referred to the set point. Temperature alarm is enabled when the temperature exceeds the [SET+ALU] or [SET-ALL] values.		
ALU	MAXIMUM temperature alarm: (ALL to 110°C; ALL to 230°F) when this temperature is reached the alarm is enabled, after the ALd delay time.		
ALL	Minimum temperature alarm: (-50°C to ALU; -58 to ALU) when this temperature is reached the alarm is enabled, after the <b>ALd</b> delay time.		
AFH	Differential for temperature alarm recovery: (0.1 to 25.5°C; 1 to 45°F) intervention differential for recovery of temperature alarm.		
ALd	I emperature alarm delay: (0 to 255 min) time interval between the detection of an alarm condition and alarm signalling.		
dAo	Exclusion of temperature alarm at start-up: (0.0 to 24h00min, res. 10min) time interval between the detection of the temperature alarm condition after instrument power on and alarm signalling.		
CONDE	NSER TEMPERATURE ALARM		
AP2	Probe selection for temperature alarm of condenser: (nP: P1: P2: P3: P4)		
	nP = no probe; P1 =thermostat probe; P2 = evaporator probe; P3 =configurable probe; P4 = Probe on Hot Key plug.		
AL2	Low temperature alarm of condenser: (-50 to 110°C; -58 to 230°F) when this temperature is reached the LA2 alarm is signalled, possibly after the Ad2 delay.		
Au2	High temperature alarm of condenser: (-50 to 110°C; -58 to 230°F) when this temperature is reached the HA2 alarm is signalled, possibly after the Ad2 delay.		
AH2	Differential for temperature condenser alarm recovery: 0.1 to 25.5°C; 1 to 45°F		
Auz	detection of the condenser alarm condition and alarm signalling.		
dA2	Condenser temperature alarm exclusion at start up: 0.0 to 24h00min, res. 10min.		
bLL	Compressor off with low temperature alarm of condenser: (n; Y) n = no: compressor keeps on working; Y = yes, compressor is switched off till the alarm is present in any case regulation restarts after AC time at minimum.		
AC2	Compressor off with high temperature alarm of condenser: (n; Y) $n = no:$ compressor keeps on working; Y = yes, compressor is switched off till the alarm is		
	present, in any case regulation restarts after AC time at minimum.		
AUXILIA	ARY RELAY		
tbA	Alarm relay silencing (with oA2 =ALr): (n; Y) n = silencing disabled: alarm relay stays on till alarm condition lasts; Y =silencing enabled: alarm relay is switched OFF by pressing a key during an alarm.		
oA2	Second relay configuration (1-2): (dEF; FAn; ALr; LiG; AUS; onF; db; CP2; dEF2; HES) dEF = defrost; FAn = do not select it; ALr = alarm; LiG = light; AUS = Auxiliary relay; onF = always on with instrument on; db = neutral zone; CP2 = do not select it; dEF2 = do not select it; HES = night blind.		
AoP	Alarm relay polarity: (CL; oP) it set if the alarm relay is open or closed when an alarm occurs. CL = terminals 1-2 closed during an alarm; oP = terminals 1-2 open during an alarm.		
DIGITAL	INPUTS		
i1P	<b>Digital input polarity (18-20):</b> (oP; CL) oP = the digital input is activated by opening the contact CL = the digital input is activated by closing the contact		
i1F	Digital input configuration (18-20): (dor; dEF) dor = door switch function; dEF = activation of a defrost cycle:		
i2P	Second digital input polarity (18-19): (oP; CL) oP = the digital input is activated by opening the contact; CL = the digital input is activated by closing the contact.		
i2F	Second digital input configuration (18-19): (EAL; bAL; PAL; dor; dEF; ES; AUS; Htr; FAn; HdF; onF) EAL = external alarm: "EA" message is displayed; bAL = serious alarm "CA" message is displayed; PAL = pressure switch alarm, "CA" message is displayed; dor = door switch function; dEF = activation of a defrost cycle; ES = energy saving; AUS = auxiliary relay activation with oA2=AUS; Htr = type of inverting action (cooling or heating); FAn = fan; HdF = Holiday defrost (enable only with RTC); onF = to switch the controller off.		
did	iid Digital input alarm delay (18-20) when i2F=EAL or i2F=bAL: (0 to 255 min) of between the detection of the external alarm condition and its signalling. When i2F= PAL, it is the interval of time to calculate the number of pressure so activation.		

doA

Door open signalling delay: 0 to 255 min. Number of pressure switch activation: (0 to 15) Number of activation, during the did nPS interval, before signalling an alarm event (i2F=PAL). If the nPS activation during did time is reached, switch off and on the instrument to restart normal regulation.

 $\label{eq:compressor} \begin{array}{l} \mbox{Compressor status when open door: (no; FAn; CPr;F_C;) no = normal; \\ \mbox{FAn = normal; CPr = compressor OFF, } F_C = compressor OFF. \end{array}$ odc Outputs restart after doA alarm: (n; Y) n = outputs not affected by the doA alarm; rrd Y = outputs restart with the doA alarm.

## rating instructions

Dixe		Installing and ope
HES Delta sets th		temperature during an Energy Saving cycle: (-30.0 to 30.0°C; -54 to 54°F) it e increasing value of the set point [SET+HES] during the Energy Saving cycle.
RTC SE	TTINGS (	ONLY FOR MODELS WITH RTC)
Hur	Currer	nt hour: 0 to 23hours
Min Curre		nt minute: 0 to 59min
dAY	Currer	nt day: SUn to SAt
Hd1	First v holiday	veekly holiday: (SUn to nU) set the first day of the week which follows the r times. nU = not used.
Hd2	Secon holiday	d weekly holiday: (SUn to nU) set the second day of the week which follows the r times. nU = not used.
ENERGY SAVIN		G SETTINGS (ONLY FOR MODELS WITH RTC)
iLE Energ Energ operat		/ Saving cycle start during workdays: (0.0 to 24h00min, res. 10min) during the Saving cycle the set point is increased by the value in HES so that the on set point is [SET+HES].
dLE	Energy duratio	<b>/ Saving cycle length during workdays</b> : (0.0 to 24h00min, res. 10min) sets the n of the Energy Saving cycle on workdays.
iSE	Energy	/ Saving cycle start on holidays: 0.0 to 23h50min, res. 10min.
dSE	Energy	y Saving cycle length on holidays 0.0 to 24h00min, res. 10min.
EFROS	STING TI	MES SETTINGS (ONLY FOR MODELS WITH RTC)
Ld1 to Ld6 Sd1 to Sd6		Start defrosts during workdays: (0.0 to 23h 50min, res. 10min) these parameters set the beginning of the 6 programmable defrost cycles during workdays. E.g.: when Ld2=12.4, the second defrost starts at 12.40 during workday time.
		Start defrosts during holydays: (0.0 to 23h50min, res. 10min) these parameters set the beginning of the 6 programmable defrost cycles on holidays. E.g.: when Sd2=3.4 the second defrost starts at 3.40 during holiday time. N.B.: to disable a defrost cycle set it to "nU" (not used). E.g.: if Ld6=nU, the sixth defrosting cycle is disabled.
OTHER		

Adr	Serial address: (1 to 247) identifies the instrument address when connected to a ModBUS compatible monitoring system.		
PbC	Type of probe: (ntC, CtC) it allows to set the kind of probe used by the instrument: ntC = NTC-EU probe, CtC = NTC-US probe.		
onF	On/Off key enabling: (nU; oFF; ES) nU = disabled; oFF = enabled; ES = not set it.		
dP1	Thermostat probe display.		
dP2	Evaporator probe display.		
dP3	Third probe display- optional.		
dP4	Fourth probe display.		
rSE	Real set point: it shows the set point used during the energy saving cycle or during the continuous cycle.		
rEL	Software release for internal use.		
Ptb	Parameter table code: readable only.		
8 DI			

The first digital input 18-20 is enabled with P3P=n

With P3P=n and i1F=i2F the second digital input is disabled The free voltage digital inputs are programmable by the i1F and i2F parameters.

#### 8.1 GENERIC ALARM (i2F = 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 doesn't change. The alarm stops just after the digital input is deactivated

#### 8.2 SERIOUS ALARM MODE (i2F = bAL)

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 deactivated

#### PRESSURE SWITCH (i2F = PAL) 8.3

If during the interval time set by did parameter, the pressure switch has reached the number of activation of the nPS parameter, the "CA" pressure alarm message will be displayed. The compressor and the regulation are stopped. When the digital input is ON the compressor is always OFF. If the nPS activation during did time is reached, switch off and on the instrument to restart normal regulation.

#### 8.4 DOOR SWITCH INPUT (i1F or i2F = dor)

It signals the door status and the corresponding relay output status through the odC parameter: no = normal (any change); FAn = Fan OFF; CPr = Compressor OFF; F\_C = Compressor and fan OFF. Since the door is opened, after the delay time set through parameter doA, the door alarm is enabled, the display shows the message dA and the regulation restarts is rtr=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

#### START DEFROST (i1F or i2F = dEF) 8.5

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 MdF safety

### 8.6 SWITCH THE AUXILIARY RELAY (i2F = AUS)

With oA2=AUS the digital input switched the status of the auxiliary relay

#### INVERSION OF THE KIND OF ACTION: HEATING-COOLING (i2F = Htr) 8.7

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

### 8.8 ENERGY SAVING (i2F = ES)

The Energy Saving function allows to change the set point value as the result of the [SET+HES] (parameter) sum. This function is enabled until the digital input is activated

#### HOLIDAY DEFROST (i2F = HDF) -ONLY FOR MODELS WITH RTC 8.9

This function enabled the holiday defrost setting

#### 8.10 ON OFF FUNCTION (i2F = onF)

To switch the controller on and off

#### **DIGITAL INPUTS POLARITY** 8.11

- The digital input polarity depends on the i1P and i2P parameters
- i1P or i2P=CL, the input is activated by closing the contact.
- i1P or i2P=OP, the input is activated by opening the contact.

### **RS485 SERIAL LINE – FOR MONITORING SYSTEMS**

The RS485 serial line allows to connect the instrument to a monitoring system (ModBUS-RTU compatible) such as the X-WEB500/3000/300.

### X-REP OUTPUT - OPTIONAL

As optional, an X-REP can be connected to the instrument, trough the dedicated connector.



To connect the X-REP to the instrument the following connectors must be used CAB-51F(1m), CAB-52F(2m), CAB-55F(5m),

### INSTALLATION AND MOUNTING



Instrument XR75CH 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.

#### 12. **ELECTRICAL CONNECTIONS**

The instrument is provided with screw terminal block to connect cables with a cross section up to 2.5mm<sup>2</sup>. 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

### 12.1 PROBE CONNECTION

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.

#### HOW TO: USE THE HOT KEY 13.

#### 13.1 PROGRAM A HOT KEY FROM AN INSTRUMENT (UPLOAD)

- Program one controller with the front keypad
- When the controller is ON, insert the "HOT-KEY" and push UP button; the "uPL" message 2 appears followed a by a flashing "End" label. Push SET button and the "End" will stop flashing.
- 3
- Turn OFF the instrument, remove the "HOT-KEY" and then turn it ON again. 4

NOTE: the "Err" message appears in case of a failed programming operation. In this case push again button if you want to restart the upload again or remove the "HOT-KEY" to abort the operation.

#### PROGRAM AN INSTRUMENT BY USING A HOT KEY (DOWNLOAD) 13.2

- Turn OFF the instrument
- Insert a pre-programmed "HOT-KEY" into the 5-PIN receptacle and then turn the Controller 2. ON
- 3 The parameter list of the "HOT-KEY" will be automatically downloaded into the Controller memory. The "doL" message will blink followed a by a flashing "End" label.
- After 10 seconds the instrument will restart working with the new parameters.
- Remove the "HOT-KEY"

NOTE: the message "Err" is displayed for failed programming. 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 the operation.

14. ALA	4. ALARM SIGNALS			
Message	Cause	Outputs		
"P1"	Room probe failure	Compressor output acc. to par. Con and CoF		
"P2"	Evaporator probe failure	Defrost end is timed		
"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 <b>bLL</b> parameter		
"dA"	Door open	Compressor restarts		
"EA"	External alarm	Output unchanged.		
"CA"	Serious external alarm (i2F=bAL)	All outputs OFF.		
"CA"	Pressure switch alarm (i2F=PAL)	All outputs OFF		

# Dixell

# Installing and operating instructions

# EMERSO

Message	Cause	Outputs		
"rtC"	Real time clock alarm	Alarm output ON; Other outputs unchanged; Defrosts according to par idF		
		Set real time clock has to be set.		
rtF	Real time clock board failure	Alarm output ON; Other outputs unchanged;		
		Defrosts according to par. idF. Contact the		
		service.		
14.1 SILI	ENCING BUZZER / ALARM	RELAY OUTPUT		
f <b>tbA=Y</b> , the If <b>tbA=n</b> , only	buzzer and the relay are is silence y the buzzer is silenced while the a	d by pressing any key. Iarm relay is on until the alarm condition recovers.		
14.2 ALA	ARM RECOVERY			
Probe alarms automatically before replac Temperature	"P1", "P2", "P3" and "P4" start sc stop some seconds after the p ing the probe. alarms "HA", "LA" "HA2" and "L	ome seconds after the fault in the related probe; they robe restarts normal operation. Check connections A2" automatically stop as soon as the temperature		
eturns to nor Alarms " <b>EA</b> " Alarm " <b>CA"</b> (	mal values. and "CA" (with i2F=bAL) recover a with i2F=PAL) recovers only by sw	is soon as the digital input is disabled.		
14.3 OTH	IER MESSAGES			
Pon Key	board unlocked.			
PoF Key	board locked			
noP In p	programming mode: no parameter present in Pr1.			
On	the display or in dP2, dP3, dP4: th	e selected probe is not enabled.		
15. TEC	HNICAL DATA			
	f oxtinguishing ARS			
Case frontal	38x80mm: denth 62mm			
Mounting: panel mounting in a 71x29mm panel cut-out				
Protection:	P20; Frontal protection: IP65			
Connections	: Screw terminal block $\leq 2.5 \text{ mm}^2$	wiring		
Power supp	y: (according to the model) 24Vac	, ±10%; 230Vac ±10%, 50/60Hz;		
110Vac ±109	%, 50/60Hz.			
Power abso	rption: 3VA max			
Display: 3 di	gits, red LEDs, 14.2 mm high. Inpu	its: Up to 4 NTC-EU or NTC-US probes		
Digital input	s: free voltage contact.			
Relay outpu Com	ts: pressor: SPST 8(3)A, 250Vac or	SPST 16A 250Vac		
Detr	OST: SPD1 8(3)A, 250Vac			
Aux	SPST 5A, 250V80 SPDT 8(3)A 250V/20 or SPST 16(	(6) 4 250)/20		
ган. Data etoring	: on the non-volatile memory (EEP	(0)A 250Vac		
nternal cloc	k hack-up: 24 hours	(KOM)		
Kind of action	on: 1B. Pollution degree: 2. Softw	vare class: A		
Rated impul	sive voltage: 2500V. Overvoltage	Category: II		
Operating te	mperature: 0 to 55°C (32 to 131°	F)		
Storage tem	perature: -30 to 85°C (-22 to 185°	'F)		
Relative hur	nidity: 20 to 85% (no condensing)			
Measuring a	nd regulation range:			
	NIC-EU probe (10k ±1%, $\beta$ =343	<b>b):</b> -40 to 110°C (-40 to 230°F)		
Pacalution	NIC-US probe (XXK $\pm$ y%, $\beta$ =???	r): -40 to 110°C (-40 to 230°F)		
Accuracy (a	whigh temp $25^{\circ}$ C $\cdot$ $\pm 0.7^{\circ}$ C $\pm 1.7^{\circ}$	ligit		
Accuracy (a	$\frac{1}{10000000000000000000000000000000000$	nAir		

### 16. CONNECTIONS



Supply: 120Vac: connect to terminals 5-6. The X-REP output is optional

17.	DEFAULT SETTING VALUES	5		
Label	Name	Range	Value	Level
SEt	Set point	LS to US	[-5.0°C] [23°F]	
rtC*	Real time clock menu	-	-	Pr1
HY	Differential	[0.1 to 25.5°C] [1 to 255°F]	[2.0°C] [2°F]	Pr1
LS	Minimum set point	[-50°C to SET] [-58°F to SET]	[-50.0°C] [-58°F]	Pr2
US	Maximum set point	[SET to 110°C] [SET to 230°F]	[110.0°C] [230°F]	Pr2
ot	Thermostat probe calibration	[-12 to 12°C] [-21 to 21°F]	[0.0°C] [0°F]	Pr1
P2P	Evaporator probe presence	n=not present; Y=pres.	Y	Pr1
οE	Evaporator probe calibration	[-12 to 12°C] [-21 to 21°F]	[0.0°C] [0°F]	Pr2
P3P	Third probe presence	n=not present; Y=pres.	n	Pr2

Label	Name	Range	Value	Level
o3	Third probe calibration	[-12.0 to 12.0°C]	[0.0°C]	Pr2
P4P	Fourth probe presence	n=not present; Y=pres.	n	Pr2
01	Fourth probe calibration	[-12.0 to 12.0°C]	[0.0°C]	Pr?
		[-21 to 21°F]	[0°F]	T12
odS AC	Outputs delay at start up	0 to 255 min	0	Pr2 Pr1
rtr	P1-P2 percentage for regulation	0 to 100 (100=P1, 0=P2)	100	Pr2
CCt	Continuous cycle duration	0.0 to 24h 00min, res. 10min	0.0	Pr2
CCS	Set point for continuous cycle	[-50 to 110.0°C]	[-5°C]	Pr2
Con	Compressor ON time with faulty probe	0 to 255 min	15	Pr2
CoF	Compressor OFF time with faulty probe	0 to 255 min	30	Pr2
CF	Temperature measurement unit	°C; °F	[°C]	Pr2
rES	Resolution	in=integer: dE= dec point	[°F] dE	Dr1
Lod	Probe displayed	P1; P2	P1	Pr2
rEd <sup>2</sup>	X-REP display	P1; P2; P3; P4; SEt; dtr	P1	Pr2
dLY	Display temperature delay	0.0 to 20min 00s, res. 10s	0.0	Pr2
atr EdF*	PI-P2 percentage for display Kind of interval for defrost	rtC: in	50 rtC	Pr2 Pr2
tdF	Defrost type	EL=el. heater; in= hot gas	EL	Pr1
dFP	Probe selection for defrost termination	nP; P1; P2; P3; P4	P2	Pr2
dtE	Defrost termination temperature	[-50 to 50°C]	[8°C]	Pr1
idF	Interval between defrost cycles	1 to 120 hours	6	Pr1
MdF	(Maximum) length for defrost	0 to 255 min	30	Pr1
dSd	Start defrost delay	0 to 99 min	0	Pr2
dAd	MAX display delay after defrost	0 to 255 min	ιτ 30	Pr2 Pr2
Fdt	Draining time	0 to 120 min	0	Pr2
dPo	First defrost after start-up	n=after idF; Y=immed.	n	Pr2
dAF	Detrost delay after fast freezing	0 to 24h 00min, res. 10min	0.0	Pr2
Fnd	Fan delay after defrost	0 to 255 min	10	Pr1
FC+	Differential of temperature to force fan	[0 to 50°C]	[10°C]	Pr?
	activation	[0 to 90°F]	[10°F]	112
FSt	Fan stop temperature	[-50 to 50°C] [-58 to 122°F1	[36°C] [23°F1	Pr1
Fon	Fan on time with compressor off	0 to 15 min	0	Pr2
FoF	Fan off time with compressor off	0 to 15 min	0	Pr2
	Probe selection for fan management	nP; P1; P2; P3; P4	P2 CL	Pr2
ACIT		[-50 to 110°C]	[0.0°C]	F12
SAA	Set Point for auxiliary relay	[-58 to 230°F]	[32°F]	PfZ
SHY	Differential for auxiliary relay	[0.1 to 25.5°C]	[2.0°C]	Pr2
ArP	Probe selection for auxiliary relay	nP: P1: P2: P3: P4	nP	Pr2
Sdd	Auxiliary relay operating during defrost	n; Y	n	Pr2
ALP	Alarm probe selection	nP; P1; P2; P3; P4	P1	Pr2
ALC	Temperat. alarms configuration	rE= related to set; Ab = absolute	Ab	Pr2
AL 11		[SEt to 110.0°C]	[110°C]	Dr1
ALU		[SEt to 230°F]	[230°F]	
ALL	Minimum temperature alarm	[-50°C to SEt] [-58°E to SEt]	[-50.0°C] [-58°F]	Pr1
		[0.1°C to 25.5°C]	[2.0°C]	Dr2
		[1°F to 45°F]	[2°F]	PIZ
ALd	l emperature alarm delay	0 to 255 min	15	Pr2 Pr2
AP2	Probe for temperat. alarm of condenser	nP; P1; P2; P3; P4	P4	Pr2
AI 2	Condenser for low temperat alarm	[-50 to 110°C]	[-40.0°C]	Pr2
		[-58 to 230°F]	[-40°F]	
AU2	Condenser for high temperat. alarm	[-50 to 110 C]	[230°F]	Pr2
AH2	Differential for condenser temperature alarm	[0.1°C to 25.5°C]	[5°C]	Pr2
<b>∆</b> 42	recovery Condenser temperature alarm dolay	[1"F to 45"F]	[5°F] 15	Pr?
dA2	Delay of cond. temper. alarm at start up	0.0 to 24h 00min, res. 10min	1.3	Pr2
ы	Compr. off for condenser low temperature	n: V	n	Pr2
~~~	alarm			. 12
AC2	temperature alarm	n; Y	n	Pr2
tbA	Alarm relay disabling	n; Y	Y	Pr2
oA2	Second relay configuration	dEF = do not select it; LiG =Light; AUS =AUX; onF=always on; FAn= do not select it; db = neutral zone; CP2 = second compressor; dF2 = do not select it; HES = night blind	LiG	Pr2
AoP	Alarm relay polarity (oA2=ALr)	oP; CL	CL	Pr2
i1P	Digital input polarity (18-20)	oP=opening; CL=closing	CL	Pr1
11F i2P	Digital Input 1 configuration (18-20)	OP=opening: CI =closing	dor Cl	Pr1 Pr2
121	Digital input configuration (19, 10)	EAL; bAL; PAL; dor; dEF; ES; AUS;	EAL	Dr2
121	Digital input comgutation (10-19)	Htr; FAn; HdF; onF	EAL	r12
	Digital Input alarm delay (18-20)	0 to 255 min	15 15	Pr1
NPS	Number of activation of pressure switch	0 to 15	15	Pr2
odC	Compress and fan status when open door	no; FAn; CPr; F_C	F-C	Pr2
rrd	Regulation restart with door open alarm	n; Y	Y	Pr2
HES	Differential for Energy Saving	[-54°F to 54°F]	0	Pr2
HUr*	Current hour	0 to 23	-	Pr1
Min*	Current minute	0 to 59	-	Pr1
uA1^ Hd1*	First weekly holiday	SUN TO SAT	- nU	Pr1
Hd2*	Second weekly holiday	Sun to Sat; nU	nU	Pr1
iLE*	Energy Saving cycle start during workdays	0 to 23h50min, res. 10min	0.0	Pr1
aLE* iSE*	Energy Saving cycle length during workdays Energy Saving cycle start on holidavs	0 to 24n 00min, res. 10min 0 to 23h 50min, res. 10min	0.0	Pr1 Pr1

# Installing and operating instructions

Label	Name	Range	Value	Level		
dSE*	Energy Saving cycle length on holidays	0 to 24h 00min, res. 10min	0	Pr1		
Ld1*	1st workdays defrost start	0 to 23h 50min, res. 10min; nU	6.0	Pr1		
Ld2*	2 <sup>nd</sup> workdays defrost start	0 to 23h 50min, res. 10min; nU	13.0	Pr1		
Ld3*	3rd workdays defrost start	0 to 23h 50min, res. 10min; nU	21.0	Pr1		
Ld4*	4th workdays defrost start	0 to 23h 50min, res. 10min; nU	nU	Pr1		
Ld5*	5th workdays defrost start	0 to 23h 50min, res. 10min; nU	nU	Pr1		
Ld6*	6th workdays defrost start	0 to 23h 50min, res. 10min; nU	nU	Pr1		
Sd1*	1st holiday defrost start	0 to 23h 50min, res. 10min; nU	6.0	Pr1		
Sd2*	2 <sup>nd</sup> holiday defrost start	0 to 23h 50min, res. 10min; nU	13.0	Pr1		
Sd3*	3rd holiday defrost start	0 to 23h 50min, res. 10min; nU	21.0	Pr1		
Sd4*	4th holiday defrost start	0 to 23h 50min, res. 10min; nU	nU	Pr1		
Sd5*	5th holiday defrost start	0 to 23h 50min, res. 10min; nU	nU	Pr1		
Sd6*	6th holiday defrost start	0 to 23h 50min, res. 10min; nU	nU	Pr1		
Adr	Serial address	1 to 247	1	Pr2		
PbC	Kind of probe	ntC; CtC	ntC	Pr2		
onF	on/off key enabling	nU, oFF; ES	nU	Pr2		
dP1	Room probe display		-	Pr1		
dP2	Evaporator probe display		-	Pr1		
dP3	Third probe display		-	Pr1		
dP4	Fourth probe display		-	Pr1		
rSE	Real set	actual set	-	Pr2		
rEL	Software release		5.6	Pr2		
Ptb	Map code		-	Pr2		
* Only for model with real time clock						

<sup>2</sup> Only for XR75CH with X-REP output



Dixell S.r.l. - Z.l. Via dell'Industria, 27 - 32010 Pieve d'Alpago (BL) ITALY Tel. +39.0437.9833 r.a. - Fax +39.0437.989313 - EmersonClimate.com/Dixell - dixell@emerson.com

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