## Dixell

# WING

**XW220K** 

## 1. GENERAL WARNING

- 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 with inductive loads could be useful.

#### 2. GENERAL DESCRIPTION

Model XW220K is microprocessor based controller suitable for applications on normal temperature refrigerating units. It must be connected by means of a two-wire cable ( $\varnothing$  1mm) at a distance of up to 30 meters to the keyboard **T620**. It is provided with two relay outputs to control compressor, and the lights. It is also provided with two NTC probe inputs, one for temperature control, one optional, for the display. There are two digital inputs (free contact) for the door switch and configurable by parameter.The standard TTL output allows the user to connect, by means of a TTL/RS485 external module, a ModBUS-RTU compatible monitoring system and to programme the parameter list with the "Hot Key". An optional output for RS485 direct is available

## 3. CONTROLLING LOADS

#### 3.1 THE COMPRESSOR

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

#### 3.2 FAST FREEZING

When defrost is not in progress, it can be activated the keypad by holding the 🔺 key pressed for about 3 seconds. The compressor operates in continuous mode for the time set through the "CCt" parameter. The cycle can be terminated before the end of the set time using the same activation key. A for about 3 seconds.

#### 3.3 DEFROST

The defrost interval is control by means of parameter "EdF": (EdF=in) the defrost is made every "IdF" time, (EdF=Sd) the interval "IdF" is calculate through Smart Defrost algorithm (only when the compressor is ON).

Defrost is performed through a simple stop of the compressor. Parameter "IdF" controls the interval between defrost cycles, while its length is controlled by parameter "MdF

#### KEYBOARD

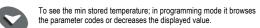


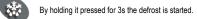
1592009500 XW220K GB r1.1 04.08.2015

## To display and modify target set point; in programming mode it selects a parameter or confirm an operation

By holding it pressed for 3s when max or min temperature is displayed it will be erased

To see the max, stored temperature; in programming mode it browses the parameter codes or increases the displayed value. By holding it pressed for 3s the fast freezing cycle is started.





×۲ Switch ON and OFF the cold room light.

U Switch ON and OFF the instrument.

#### KEY COMBINATIONS



4.1 U	SE OF LEDS	
Each LE	ED function is described	d in the following table.
LED	MODE	Function
辮	ON	The compressor is running
淋	FLASHING	- Programming Phase (flashing with LED 5) - Anti-short cycle delay enabled
ş	FLASHING	Programming Phase (flashing with LED 💥)
漤	ON	The defrost is enabled
(*)	ON	The Fast Freezing cycle is enabled
( <b>!</b> ))	ON	<ul> <li>ALARM signal</li> <li>In "Pr2" indicates that the parameter is also present in "Pr1"</li> </ul>

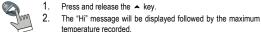
Function of the LEDs placed on the left top side of buttons:

BUTTON	MODE	FUNCTION
SET	FLASHING	The Set point is displayed and it can be modified
SET	FAST FLASHING	The Energy Saving is enabled
DEFROST	ON	The Manual Defrost is activated
LIGHT	ON	The Light is ON
ON/OFF	ON	The instrument is OFF

## 4.2 HOW TO SEE THE MIN TEMPERATURE

- Press and release the very Mon 2. The "Lo" message will be displayed followed by the minimum temperature recorded.
  - 3. By pressing the 👻 key or waiting for 5s the normal display will restored

## 4.3 HOW TO SEE THE MAX TEMPERATURE



3 By pressing the A key or waiting for 5s the normal display will

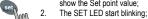
#### 4.4 HOW TO RESET THE MAX AND MIN TEMPERATURE RECORDED

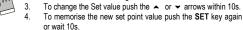
- To reset the stored temperature, when max or min temperature is displayed.
- Press SET key until "rST" label starts blinking.

#### N.B. After the installation RESET the temperature stored

## 4.5 HOW TO SEE AND MODIFY THE SET POINT

#### Push and immediately release the SET key: the display will show the Set point value:

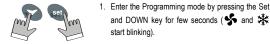




## Installing and operating instructions



## 4.7 TO ENTER IN PARAMETERS LIST "PR1" To enter the parameter list "Pr1" (user accessible parameters) operate as follows



and DOWN key for few seconds ( 🐓 and 🗱 start blinking).

2. The instrument will show the first parameter present in "Pr1

EAL = generic alarm:

PAL = Pressure switch;

dFr = Start defrost:

AUS = Not used:

bAL = serious alarm mode;

OP : the digital input is activated by opening the contact

12F Digital input operating mode: configure the digital input function:

#### 4.8 TO ENTER IN PARAMETERS LIST "PR2"

- To access parameters in "Pr2": 1. Enter the "Pr1" level.
- Select "Pr2" parameter and press the "SET" key.
- The "PAS" flashing message is displayed, shortly followed by "0 -" with a flashing zero.
- Use A or V to input the security code in the flashing digit; confirm the figure by pressing "SET". The security code is "321".
- 5 If the security code is correct the access to "Pr2" is enabled by pressing "SET" on the last digit.

Another possibility is the following: after switching ON the instrument the user can push Set and DOWN keys within 30 seconds

NOTE: each parameter in "Pr2" can be removed or put into "Pr1" (user level) by pressing "SET" + ▼. When a parameter is present in "Pr1" LED ((!)) is on.

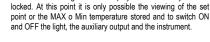
#### 4.9 HOW TO CHANGE THE PARAMETER VALUE

- 1. Enter the Programming mode.
- 2. Select the required parameter with A or -
- 3. Press the "SET" key to display its value ( 3 and s LED starts blinking). Use ▲ or ▼ to change its value.
- Press "SET" to store the new value and move to the following parameter.

To exit: Press SET + UP or wait 15s without pressing a key. NOTE: the new programming is stored even when the procedure is exited by waiting the time-out.

### 4.10 HOW TO LOCK THE KEYBOARD

- 1. Keep the A and V keys pressed together for more than 3 s the < and < keys. The "POF" message will be displayed and the keyboard is
- 2. 5



## TO UNLOCK THE KEYBOARD

Keep the A and V keys pressed together for more than 3s.

## 4.11 ON/OFF FUNCTION

By pushing the **ON/OFF** key, the instrument shows "OFF" for 5 sec. and the ON/OFF LED is switched ON. During the OFF status all the relays are switched OFF and the regulations are stopped; if a monitoring system is connected, it does not record the instrument data and alarms. N.B. During the OFF status the Light and AUX buttons are

#### 4.12 TO SEE THE PROBE VALUES

- Enter in "Pr2" level.
- 2. Select "Prd" parameter with A or V
- Press the "SET" key to display "Pb1" label alternate with Pb1 value. 3
- 4 Use ▲ and keys to display the other probe values.
- Press "SET" to move to the following parameter.

#### 5. PARAMETER LIST

#### REGULATION

- Hy Differential: (0,1÷25,5°C; 1÷45°F): Intervention differential for set point, always positive. Compressor Cut IN is Set Point Plus Differential (Hy). Compressor Cut OUT is when the temperature reaches the set point
- Minimum set point limit: (-50,0°C+SET; -58°F+SET) Sets the minimum acceptable value for the set point.
- US Maximum set point limit: (SET+110°C; SET+230°F) Set the maximum acceptable value for set point.
- OdS Outputs activation delay at start up: (0+255 min) 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. (Light can work)
- AC Anti-short cycle delay: (0+30 min) interval between the compressor stop and the following restart
- CCt Thermostat override: (0min +23h 50min) allows to set the length of the continuous cycle. Can be used, for instance, when the room is filled with new products.
- Con Compressor ON time with faulty probe: (0+255 min) time during which the compressor is active in case of faulty thermostat probe. With COn=0 compressor is always OFF.
- COF Compressor OFF time with faulty probe: (0+255 min) time during which the compressor is off in case of faulty thermostat probe. With COF=0 compressor is always active.

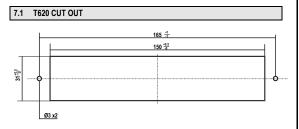
XW220K

CH Type of action: CL (COOL); Ht (HEAT)

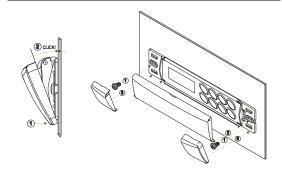
		En = Enormy Coving:
DISP		Es = Energy Saving; onF = remote On/OFF.
CF	Temperature measurement unit: °C = Celsius; °F = Fahrenheit. When the	did Time interval/delay for digital input alarm:(0÷255 min.) Time interval to
	measurement unit is changed the SET point and the values of some	calculate the number of the pressure switch activation when I2F=PAL. If
	parameters have to be modified	I2F=EAL or bAL (external alarms), "did" parameter defines the time delay
IE3	<b>Resolution (for °C)</b> : (in = 1°C; de = 0,1°C) allows decimal point display. de = 0,1°C	between the detection and the successive signalling of the alarm.
	in = 1 °C	
Red	Remote display : select which probe is displayed by the T620 keyboard	OTHER
	P1 = Thermostat probe	Adr RS485 serial address (1÷247): Identifies the instrument address when
	P2 = Not used	connected to a ModBUS compatible monitoring system.
	P3 = auxiliary probe	Rel Release software: (read only) Software version of the microprocessor.
	1r2 = Not used	Ptb Parameter table: (read only) it shows the original code of the Dixell parameter map.
DEEL	ROST	Prd Probes display: (read only) display the probes temperature values
		Pr2 Access to the protected parameter list (read only).
Ear	Defrost mode: in = interval mode. The defrost starts when the time "Idf" is expired.	
	<b>Sd = Smartfrost mode</b> . The time IdF (interval between defrosts) is increased	
	only when the compressor is running (even non consecutively).	6. DIGITAL INPUTS
ldF	Interval between defrosts: (1÷120h) Determines the time interval between	The Wing series can support up to 2 free contact digital inputs. One is always
	the beginning of two defrost cycles.	configured as door switch, the second is programmable in seven different
MdF	(Maximum) duration of defrost: (0÷255 min) it sets the maximum length for	configurations by the "I2F" parameter.
	defrost.	6.1 DOOR SWITCH INPUT
ara	Display during defrost: rt = real temperature;	
	it = temperature reading at the defrost start;	It signals the door status and the corresponding relay output status through the "odc" parameter:
	Set = set point;	no = normal;
	dEF = "dEF" label;	Fan = normal;
	dEG = "dEG" label;	<b>CPr</b> = Compressor OFF;
dAd	Defrost display time out: (0÷255 min) Sets the maximum time between the	F_C = Compressor OFF.
	end of defrost and the restarting of the real room temperature display.	Since the door is opened, after the delay time set through parameter "dOA", the
dPO	First defrost after start-up:	alarm output is enabled and the display shows the message "dA". The alarm stops
	y = Immediately; n = after the IdF time	as soon as the external digital input is disabled again. During this time and then for the delay "dot" after closing the door, the high and low temperature alarms are
dAF	<b>Defrost delay after fast freezing:</b> (0min÷23h 50min) after a Fast Freezing	disabled.
•••••	cycle, the first defrost will be delayed for this time.	
ALA	RMS	6.2 CONFIGURABLE INPUT - GENERIC ALARM (EAL)
ALC	Temperature alarm configuration	As soon as the digital input is activated the unit will wait for "did" time delay before
	rE = High and Low alarms related to Set Point	signalling the "EAL" alarm message. The outputs status don't change. The alarm
	Ab = High and low alarms related to the absolute temperature.	stops just after the digital input is de-activated.
ALU	High temperature alarm setting:	
	ALC= rE, 0 + 50°C or 90°F	
	ALC= Ab, ALL $\div$ 110°C or 230°F when this temperature is reached and after the ALd delay time the HA alarm	6.3 CONFIGURABLE INPUT - SERIOUS ALARM MODE (BAL)
	is enabled.	When the digital input is activated, the unit will wait for "did" delay before signalling
ALI	Low temperature alarm setting:	the "BAL" alarm message. The relay outputs are switched OFF. The alarm will stop
/	ALC = $rE$ , 0 + 50 °C or 90°F	as soon as the digital input is de-activated.
	ALC = Ab, - 50°C or -58°F + $ALU$	
	when this temperature is reached and after the ALd delay time, the LA alarm	6.4 CONFIGURABLE INPUT - PRESSURE SWITCH (PAL)
	is enabled,.	If during the interval time set by "did" parameter, the pressure switch has reached
AFH	<b>Temperature alarm and fan differential:</b> (0,1+225,5°C; 1+45°F) Intervention differential for temperature alarm set point, always positive.	the number of activation of the "nPS" parameter, the "PAL" pressure alarm
h IA	<b>Temperature alarm delay:</b> (0÷255 min) time interval between the detection	message will be displayed. The compressor and the regulation are stopped. When
/.=.	of an alarm condition and the corresponding alarm signalling.	the digital input is ON the compressor is always OFF.
dAO	Delay of temperature alarm at start-up: (0min÷23h 50min) time interval	
	between the detection of the temperature alarm condition after the instrument	6.5 CONFIGURABLE INPUT - START DEFROST (DFR)
	power on and the alarm signalling.	It executes a defrost if there are the right conditions. After the defrost is finished, the
EdA	Alarm delay at the end of defrost: (0÷255 min) Time interval between the	normal regulation will restart only if the digital input is disabled otherwise the
	detection of the temperature alarm condition at the end of defrost and the alarm signalling.	instrument will wait until the "Mdf" safety time is expired.
dot	Delay of temperature alarm after closing the door : (0+255 min) Time	
	delay to signal the temperature alarm condition after closing the door.	
doA	Open door alarm delay:(0+255 min) delay between the detection of the	6.6 CONFIGURABLE INPUT - ENERGY SAVING (ES)
	open door condition and its alarm signalling: the flashing message "dA" is	The Energy Saving function allows to change the set point value as the result of the
	displayed.	SET+ HES (parmeter) sum. This function is enabled until the digital input is
nPS	<b>Pressure switch number:</b> (0 ÷15) Number of activation of the pressure switch, during the "did" interval, before signalling the alarm event (I2F= PAL).	activated.
<b>DDC</b>		
	BE INPUTS	6.7 CONFIGURABLE INPUT - REMOTE ON/OFF (ONF)
Ot	Thermostat probe calibration: (-12.0+12.0°C/ -21+21°F) allows to adjust	This function allows to switch ON and OFF the instrument.
03	possible offset of the thermostat probe. <b>Auxiliary probe calibration:</b> (-12.0+12.0°C/ -21+21°F) allows to adjust	
05	possible offsets of the evaporator probe.	
P2P	Evaporator probe presence:	6.8 DIGITAL INPUTS POLARITY
	n= not present: the defrost stops only by time; y= present: the defrost stops	The digital inputs polarity depends on "I1P" and "I2P" parameters.
	by temperature and time.	CL : the digital input is activated by closing the contact.
	Auxiliary probe presence: n= not present; y= present.	<b>OP</b> : the digital input is activated by opening the contact
HES	Temperature increase during the Energy Saving cycle : $(-30,0^{\circ}C \div 30,0^{\circ}C / -22 \div 86^{\circ}F)$ sets the increasing value of the set point during the	
	Energy Saving cycle.	
P. C.		7. INSTALLATION AND MOUNTING
	TAL INPUTS	T620 keyboard shall be mounted on vertical panel, in a 150x31 mm hole, and fixed
odc	Compressor and fan status when open door:	using two screws $\emptyset$ 3 x 2mm. To obtain an IP65 protection grade use the front panel rubbar gasket (mod. RG I). Power module <b>XW220K</b> shall be mounted in a
	no = normal; Fon = Fon OFF:	panel rubber gasket (mod. RG-L). Power module XW220K shall be mounted in a panel with two or more screws and it must be connected to the keyboard by means
	Fan = Fan OFF; CPr = Compressor OFF;	of a two-wire cable ( $\emptyset$ 1mm). The temperature range allowed for correct operation
	$F_C = Compressor and fan OFF.$	is 0 - 60 °C. Avoid places subject to strong vibrations, corrosive gases, excessive
l1P		dirt or humidity. The same recommendations apply to probes. Let the air circulate
	CL : the digital input is activated by closing the contact;	by the cooling holes.
	OP : the digital input is activated by opening the contact.	
I2P		
	CL : the digital input is activated by closing the contact;	

EMEDGO

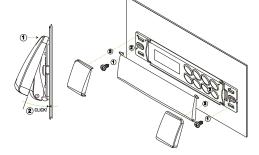
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#### 7.2 MOUNTING WITH KEYBOARD COVER OPENING DOWNWARD



#### 7.3 MOUNTING WITH KEYBOARD COVER OPENING UPWARD



#### 8. ELECTRICAL CONNECTIONS

XW220K is provided with screw terminal blocks to connect cables with a cross section up to 2,5 mm<sup>2</sup> for the RS485(optional) and the keyboard. Connecting other inputs, power supply and relays, XW220K is provided with Faston connections (6,3mm). Heat-resistant cables have to be used. 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.

N.B. Maximum current allowed for all the loads is 20A.

#### 8.1 PROBE CONNECTIONS

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.

#### TTL/RS485 SERIAL LINE

The TTL connector allows, by means of the external module TTL/RS485 (XJ485), to connect the unit to a network line ModBUS-RTU compatible as the Dixell monitoring system XJ500 (Version 3.0).

The same TTL connector is used to upload and download the parameter list of the "HOT KEY". The instruments can be ordered wit the serial output RS485(Optional).

## 10. USE OF THE PROGRAMMING "HOT KEY "

The Wing units can UPLOAD or DOWNLOAD the parameter list from its own E2 internal memory to the "Hot Key" and vice-versa.

#### 10.1 DOWNLOAD (FROM THE "HOT KEY" TO THE INSTRUMENT)

- Turn OFF the instrument by means of the ON/OFF key, remove the TTL serial cable if present, insert the "Hot Key" and then turn the Wing ON.
- Automatically the parameter list of the "Hot Key" is downloaded into the Wing memory, the "DoL" message is blinking. After 10 seconds the 2. instrument will restart working with the new parameters.
- 3 Turn OFF the instrument remove the "Hot Key", plug in the TTL serial cable then turn it ON again
- At the end of the data transfer phase the instrument displays the following messages: "end " for right programming.

- The instrument starts regularly with the new programming.
- "err" 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.

#### 10.2 UPLOAD (FROM THE INSTRUMENT TO THE "HOT KEY")

- Turn OFF the instrument by means of the ON/OFF key and remove the TTL serial cable if present; then turn it ON again
- 2. When the Wing unit is ON, insert the "Hot key" and push A key; the "uPL" message appears.
- Push "SET" key to start the UPLOAD; the "uPL" message is blinking.
- 4 Turn OFF the instrument remove the "Hot Key", plug in the TTL serial cable, then turn it ON again. At the end of the data transfer phase the instrument displays the following
- messages "end " for right programming.

"err" for failed programming. In this case push "SET" key if you want to restart the programming again or remove the not programmed "Hot key".

#### 11. ALARM SIGNALS

3

Message	Cause	Outputs	
"P1"	Thermostat probe failure	Alarm output ON; Compressor output according to parameters "COn" and "COF"	
"P3"	Auxiliary probe failure	Alarm output ON; Other outputs unchanged	
"HA"	Maximum temperature alarm	Alarm output ON; Other outputs unchanged	
"LA"	Minimum temperature alarm	Alarm output ON; Other outputs unchanged	
"EE"	Data or memory failure	Alarm output ON; Other outputs unchanged	
"dA"	Door switch alarm	Alarm output ON; Other outputs unchanged	
"EAL"	External alarm	Alarm output ON; Other outputs unchanged	
"BAL"	Serious external alarm	Alarm output ON; Other outputs OFF	
"PAL"	Pressure switch alarm	Alarm output ON; Other outputs OFF	

The alarm message is displayed until the alarm condition is recovery.

All the alarm messages are showed alternating with the room temperature except for the "P1" which is flashing. To reset the "EE" alarm and restart the normal functioning press any key, the "rSt"

message is displayed for about 3s.

## 11.1 SILENCING BUZZER

Once the alarm signal is detected the buzzer can be silenced by pressing any key. Buzzer is mounted in the **T620** keyboard and it is an option.

#### 11.2 "EE" ALARM

The Dixell instruments are provided with an internal check for the data integrity. Alarm "EE" flashes when a failure in the memory data occurs. In such cases the alarm output is enabled.

#### 11.3 ALARM RECOVERY

Probe alarms : "P1" (probe1 faulty), and "P3"; they automatically stop 10s after the probe restarts normal operation. Check connections before replacing the probe. Temperature alarms "HA" and "I A" automatically stop as soon as the thermostat temperature returns to normal values or when the defrost starts. Door switch alarm "**dA**" stop as soon as the door is closed.

External alarms "EAL", "BAL" stop as soon as the external digital input is disabled "PAL" alarm is recovered by switching OFF the instrument.

#### 12. TECHNICAL DATA

T620 keyboard

Housing: self extinguishing ABS. Case: facia 38x185 mm; depth 23mm

Mounting :

panel mounting in a 150x31 mm panel cut-out with two screws Ø 3 x 2mm Distance between the holes 165mm

Protection: IP20. Frontal protection: IP65 with frontal gasket mod RG-I (optional)

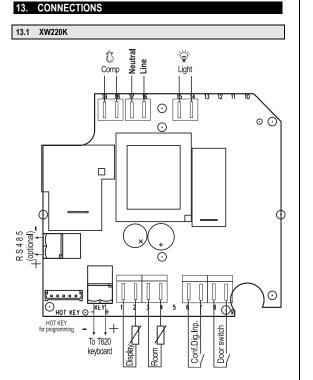
**Connections:** Screw terminal block  $\leq 2,5$  mm<sup>2</sup> heat-resistant wiring and 6,3mm Power supply: from XW220K power module Display: 3 digits, red LED, 14.2 mm high.

## Optional output: buzzer Power module XW220K

"OS": open board 90x 83 mm; height: 40mm. "GS": case 104x104; height 50mm. Self extinguishing ABS. IP55 **Connections:** Screw terminal block  $\leq$  2,5 mm<sup>2</sup> heat-resistant wiring and 6,3mm Faston Power supply: 230Vac or. 110Vac  $\pm$  10% Power absorption: 10VA max Inputs: 2 NTC probes Digital inputs: 2 free voltage

#### Relay outputs: <u>Total current on loads MAX. 20A</u> compressor: relay SPST 20(8) A, 250Vac light: relay SPST 16(3) A, 250Vac Serial output : TTL standard. RS485 optional Communication protocol: Modbus - RTU Data storing: on the non-volatile memory (EEPROM). Kind of action: 1B Pollution grade: normal Software class: A. Operating temperature: 0+60 °C.

Storage temperature: -25+60 °C. Relative humidity: 20+85% (no condensing) Measuring and regulation range: NTC probe: -40+110°C (-58+230°F) Resolution: 0,1 °C or 1°C or 1 °F (selectable). Accuracy (ambient temp. 25°C): ±0,5 °C ±1 digit



Installing and operating instructions

### T620 Keyboard



Numero morsetto	Descrizione
HOT KEY	Hot key for programming
RS485 (Optional)	RS485 direct output
KEY (+)	+ :connection for keyboard
KEY (-)	- : connection for keyboard
1 - 2	Display probe
3 - 4	Room probe
6 - 7	Configurable digital input
8 - 9	Door switch
14 - 15	Light relay
16	Phase
17	Neutral
18 -19	Compressor relay

#### 14. DEFAULT SETTING VALUES

Label	Name
	REGULATION
Set	Set point
Hy	Differential
LS	Minimum set point
US	Maximum set point
OdS	Outputs activation delay at start up
AC	Anti-short cycle delay
CCt	Compressor ON time during fast freezing
COn	Compressor ON time with faulty probe
COF	Compressor OFF time with faulty probe
СН	Type of action
	DISPLAY
CF	Temperature measurement unit
rES	Resolution (integer/decimal point)
Red	Remote display
	DEFROST
EdF	Defrost mode
ldF	Interval between defrost cycles
MdF	(Maximum) length for 1° defrost
dFd	Displaying during defrost
dAd	MAX display delay after defrost
dPO	First defrost after start up
dAF	Defrost delay after fast freezing
	ALARMS
ALC	Temperature alarms configuration
ALU	MAXIMUM temperature alarm
ALL	minimum temperature alarm
AFH	Temperature alarm differential
ALd	Temperature alarm delay
dAO	Delay of temperature alarm at start up
EdA	Alarm delay at the end of defrost
dot	Delay of temperature alarm after closing the door
dOA	Open door alarm delay
nPS	Pressure switch activation number
	ANALOGUE INPUTS
Ot	Thermostat probe calibration
03	Auxiliary probe calibration
P3P	Auxiliary probe presence
HES	Temperature increase during the Energy Saving cycle
IIL0	DIGITAL INPUTS
Odc	Open door control
I1P	Door switch polarity
I2P	Configurable digital input polarity
i2F	Digital input configuration
dld	Digital input alarm delay
	OTHER
Adr	Serial address
rEL	Software release
Ptb	Map code
Prd	Probes display
Pr2	Access parameter list

Dixell
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## 

Range	Default	Level
	°C/°F	XW220K
LS÷US	3/37	Pr1
0,1÷25,5 °C / 1÷45°F	2/4	Pr1
-50,0°C+SET / -58°F+SET	-10/18	Pr2
SET ÷ 110°C / SET ÷ 230°F	20/68	Pr2
0÷255 min.	1	Pr2
0÷30 min.	1	Pr1
0 ÷ 23h 50 min.	0	Pr2
0÷255 min.	15	Pr2
0÷255 min.	30	Pr2
CL÷Ht	CL	Pr2
°C ÷ °F	°C/°F	Pr2
in ÷ de	De	Pr1
P1 ÷ 1r2	P1	Pr2
In, Sd	In	Pr2
1÷120h	8	Pr1
0÷255 min.	20	Pr1
rt, it, SEt, dEF, dEG	lt	Pr2
0÷255 min.	30	Pr2
n ÷ y	N	Pr2
0 ÷ 23h 50 min.	2	Pr2
rE÷Ab	Re	Pr2
-50,0÷110°C/ -58÷230°F	10/20	Pr1
-50,0÷110°C/ -58÷230°F	10/20	Pr1
0,1÷25,5 °C / 1÷45°F	2/4	Pr2
0÷255 min.	15	Pr2
0 ÷ 23h 50 min.	1.3	Pr2
0÷255 min.	30	Pr2
0÷255 min.	15	Pr2
0÷255 min.	15	Pr2
0÷15	0	Pr2
 -12,0÷12,0°C / -21÷21°F	0	Pr1
 -12,0÷12,0°C / -21÷21°F	0	Pr2
 n ÷ y	N	Pr2
-30÷30°C / -22÷86°F	0	Pr2
 no, Fan, CPr, F_C	Fan	Pr2
CL÷OP	CL	Pr2
CL÷OP	CL	Pr2
EAL, bAL, PAL, dFr, AUS, ES, OnF	EAL	Pr2
0÷255 min.	5	Pr2
 0÷247	1	Pr1
 	1.0	Pr2
 		Pr2
 Pb1÷Pb3		Pr2
		Pr2



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