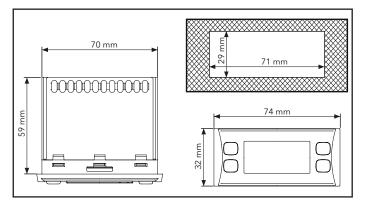
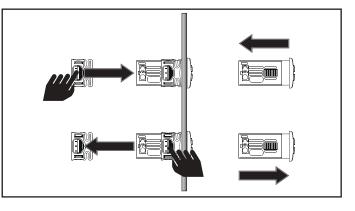
EWPlus 961/971/974 Electronic controllers for refrigeration units



	USER IN	ITERFACE		
	Elaching: D	onomy LED nergy Saving active educed SET active ccess to level2 parameters therwise		s LED anently on: fans active otherwise
EW- <i>LUS</i> 961	Permanently on: cc Flashing: a		JX Aux Perm Flash Off:	anently on: Aux output active
	Defrost LED Permanently on: du	1	Perm Off:	T mode LED anently on: compressor in HEAT mode otherwise y EWPlus 961)
EW- <i>LUS</i> 971/974	Image: Second	therwise it in instructions (dro = 1)	rE: the instrume the HEAT rument by same proc	nt is set in the COOL mode, in order to use mode it is necessary to reprogramme the using the properly programmed Copycard. edure should be followed to pass from the he COOL mode.
NOTE: When switched on, the device performs a Lan display and LEDs will flash for several seconds they all function correctly.	np Test; the s to check that			USED y EWPlus 961)
	K	EYs		
CUP Press and release • Scroll menu items • Increases values	DOWN Press and release • Scroll menu items • Decrease values	STAND-BY (ESC) Press and release • Returns to the previous menu I • Confirms parameter value	evel	Set SET (ENTER) Press and release • Displays alarms (if active) • Opens Machine Status menu
Press for at least 5 sec • Activates the Manual Defrost function	Press for at least 5 sec • Function can be configured by the user ((see parameter H32)	Press for at least 5 sec • Attiva la funzione Stand-by (OFI (quando non sono all'interno d		Press for at least 5 sec • Opens Programming menu • Confirm commands
The device is designed for par		- DIMENSIONS		

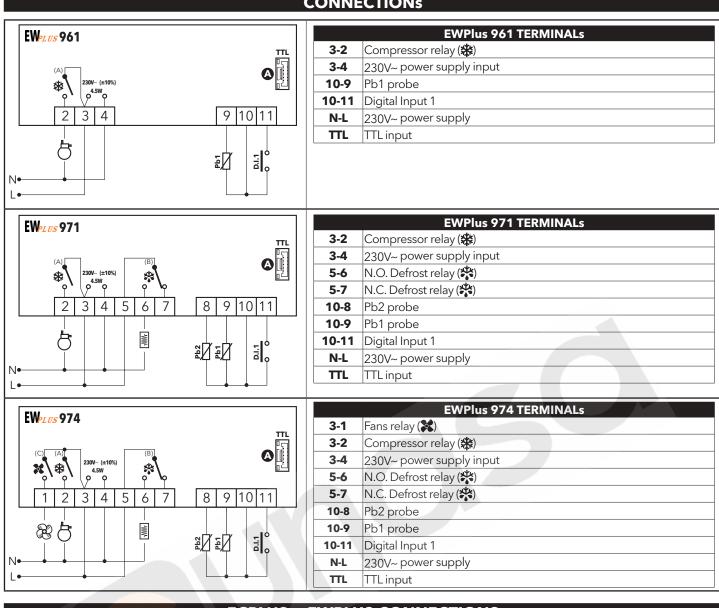
The device is designed for panel mounting. Drill a 29x71 mm hole and insert the instrument; secure it with the special brackets provided. Do not install the instrument in damp and/or dirty places; in fact, it is suitable for use in places with ordinary or normal levels of pollution. Keep the area around the instrument cooling slots adequately ventilated.



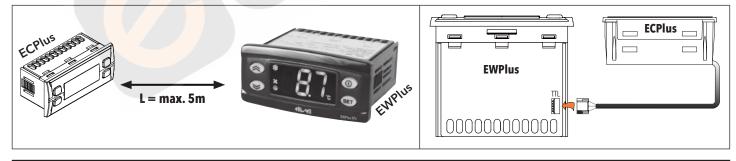




CONNECTIONs



ECPLUS + EWPLUS CONNECTIONS



PASSWORD

Password PA1: used to access "User" parameters. The password is not enabled by default (PA1=0).

To enable it (PA1 \neq 0): press and hold set for longer than 5 seconds, scroll through the parameters using \approx and \approx until you see the label **PS1**, press set to display the value, modify it using \approx and \approx , then save it by pressing set or $(\mathbf{0})$. If enabled, it will be required in order to access the User parameters.

Password PA2: used to access "Installer" parameters. The password is enabled by default (PA2=15).

To modify it (**PA2\neq15**): press and hold set for longer than 5 seconds, scroll through the parameters using \approx and \approx until you see the label PA2, press set , set the value to "15" using < and 📚 , then confirm using set . Scroll through the folders until you find the label diS and press set to enter. Scroll through the parameters using 🕿 and 📚 until you see the label PS2, press set to display the value, modify it using *A* and *A*, then save it by pressing **set** or **()**. The visibility of **PA2** is as follows:

1) PA1 & PA2 ≠ 0: Press and hold set for longer than 5 seconds to display PA1 and PA2. It will then be possible to decide whether to access the "User" parameters (PA1) or the "Installer" parameters (PA2).

2) Otherwise: The password **PA2** is amongst the level1 parameters. If enabled, it will be required when accessing the Installer parameters; to enter it, proceed as instructed for password PA1.

NOTE: If the password entered is incorrect, the label PA1/PA2 will be displayed again and the procedure will need to be repeated.

EWPlus + ECPlus

ACCESSO E USO DEI MENU

Resources are organised into 2 menus which are accessed as explained below:

- "Machine Status" menu: press and release the set key.
- "Programming" menu: press for at least 5 secs the set key.

Either do not press any keys for 15 seconds (time-out) or press the ①, key once, to confirm the last value displayed and return to the previous screen.

"MACHINE STATUS" MENU

Access the Machine Status menu by pressing **set** and releasing the key. If no alarms are active, the "SEt" label appears. Use the keys < and 😻 to scroll through all the folders in the "Machine Status" menu:



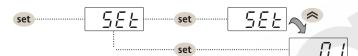
- AL: alarms folder (visibile solo se ci sono allarmi attivi);
 SEt: Setpoint setting folder:
- SEt: Setpoint setting folde - Pb1: probe 1 - Pb1 folder;
- Pb1: probe 1 -- Pb2: probe 2 -

: probe 2 - Pb2* folder (EWPlus 971/974 models only);

* folder displayed if Pb2 present (H42 = y)

SETPOINT SETTING:

To display the Setpoint value press the **set** key when the "SEt" label is displayed. The Setpoint value appears on the display. To change the Setpoint value, press the set and keys within 15 seconds. Press **set** to confirm the modification.



LOCK SETPOINT MODIFICATION: The keypad can be locked by programming the 'LOC' parameter. With the keypad locked you can still access the 'Machine Status' menu by pressing set to display

With the keypad locked you can still access the 'Machine Status' menu by pressing **set** to display the Set point, but you cannot edit them. To disable the keypad lock, repeat the locking procedure.

DISPLAYING THE PROBES:

When labels Pb1 or Pb2* are present, press the set key to view the value measured by the corresponding probe. N.B.: 1) Pb2 is only present on EWPlus 971/974 models. 2) the value cannot be modified.

MENU' DI PROGRAMMAZIONE

To access the "Programming" menu, press the **set** key for more than 5 seconds. If specified, an access PASSWORD will be requested: **PA1** for "**User**" parameters and **PA2** for "**Installer**" parameters (see "PASSWORD" paragraph).

"User" parameters: When accessed, the display will show the first parameter (e.g. "dF1").

Press \approx and > to scroll through all the parameters on the current level. Select the desired parameter by pressing set. Press \approx and > to modify it and set to save the changes.

"Installer" parameters: When accessed, the display will show the first folder (e.g. "CP"). Press (and to scroll through the folders on the current level. Select the desired folder using set. Press (and to scroll through the parameters in the current folder and select the parameter using set. Press (and to modify it and set to save the changes.

NOTE: Make sure you switch the instrument off and on again each time the parameter configuration is changed, in order to prevent malfunctioning in the configuration and/or timing in progress.

SET POINT EDIT LOCK

It is possible to disable the keypad on this device. The keypad can be locked by programming the 'LOC' parameter. With the keypad locked you can still access the 'Machine Status' menu by pressing **set** to display the Set point, but you cannot edit them. To disable the keypad lock, repeat the locking procedure.

USING THE UNICARD/COPYCARD

The Unicard/Copycard is connected to the serial port (TTL) and allows rapid programming of the instrument parameters. Access "**Installer**" parameters by entering **PA2**, scroll through the folders using \bigotimes and \bigotimes until folder **FPr** appears. Select it using **set**, scroll through the parameters using \bigotimes and \bigotimes , then select the function using **set** (e.g. **UL**).

• Upload (UL): select UL and press set . This function uploads the programming parameters from the instrument to the card. If the procedure is a success, "y", will appear on the display, otherwise "n" will appear.

• Format (Fr): This command is used to format the Unicard/Copycard, (recommended when using the card for the first time). IMPORTANT: the Fr parameter deletes all data present. This operation cannot be cancelled.

• Download: Connect the Unicard/Copycard when the instrument is switched off. At power-on, data is downloaded from the Unicard/Copycard to the instrument automatically. At the end of the lamp test, the display will show "dLy" if the operation was successful and "dLn" if not.

NOTE:

After downloading, the instrument works with the settings of the new map just downloaded.



MANUAL DEFROST CYCLE ACTIVATION

To manually activate the defrost cycle, hold down the < key for 5 seconds. If the defrost conditions are not satisfied:

- parameter OdO ≠ 0 (**EWPlus 961/971/974**)
- probe Pb2 temperature is higher than the defrost end temperature (EWPlus 971/974)

the display will flash 3 times, to indicate that the operation will not be carried out.

DIAGNOSTICS

Alarms are always indicated by the buzzer (if present) and the alarm icon (...).

To switch off the buzzer, press and release any key; the corresponding icon will continue to flash.

NOTE: If alarm exclusion times have been set (see "**AL**" folder in the parameters table) the alarm will not be signalled.

- E1: in the event of cold room probe faulty (Pb1), the indication "E1" will appear on the display.
- E2: in the event of defrost probe faulty (Pb2), the indication "E2" will appear on the display (EWPlus 971/974 models only).

			ALARMs	
Label	Fault	Cause	Effects	Remedy
E1	Probe1 faulty (cold room)	 measured values are outside operating range Probe faulty / short-circuited / open 	 Display label E1 Alarm icon permanently on Disable max/min alarm controller Compressor operation based on parameters "Ont" and "OFt". 	 check probe type (NTC) check probe wiring replace probe
E2	Probe2 faulty (defrost) only on EWPlus 971/974	 measured values are outside operating range Probe faulty / short-circuited / open 	 Display label E2 Alarm icon permanently on The Defrost cycle will end due to Timeout (dEt) The evaporator fans will work in Duty Cycle mode. 	 check probe type (NTC) check probe wiring replace probe
AH1	Alarm for HIGH Pb1 temperature	value read by Pb1 > HAL after time of tAO . (see "MAX/MIN TEMPERATURE ALARMs")	Recording of label AH1 in folder AL No effect on regulation	Wait until value read by Pb1 returns below HAL-AFd.
AL1	Alarm for LOW Pb1 temperature	value read by Pb1 < LAL after time of tAO . (see "MAX/MIN TEMPERATURE ALARMs")	 Recording of label AL1 in folder AL No effect on regulation 	 Wait until value read by Pb1 returns above LAL+AFd.
EA	External alarm	digital input activation (H11 = ±5)	 Recording of label EA in folder AL Alarm icon permanently on Regulation locked if rLO = y 	 check and remove the external cause which triggered the alarm on the D.I.
OPd	Door open alarm	digital input activation (H11 = ±4) (for longer than td0)	 Recording of label Opd in folder AL Alarm icon permanently on Controller locked 	 close the door delay function defined by OAO
Ad2	end of def <mark>rost</mark> cycle due to timeout	end of defrost cycle due to timeout rather than due to defrost end temperature being recorded by probe Pb2.	 Recording of label Ad2 in folder AL Alarm icon permanently on 	wait for the next defrost cycle for automatic return

MAX/MIN TEMPERATURE ALARMs

	Relative Temperature Value to setpoint (Att=1)	Absolute Temperature Value (Att=0)		
		((e))		
	((@)) ((@)) AFd SEt AFd	(((e))) A ((e)) AFd AFd		
	SET + LAL SET + HAL SET + LAL + AFd SET + HAL - AFd	LAL LAL + AFd LAL - AFd		
Minimum temperature alarm	Temp. ≤ Set + LAL *	Temp. ≤ LAL (LAL with sign)		
Maximum temperature alarm	Temp. ≥ Set + HAL **	Temp. ≥ HAL (HAL with sign)		
Returning from minimum temperature alarm	Temp. ≥ Set + LAL + AFd or ≥ Set - ILALI + AFd (LAL < 0)	Temp. ≥ LAL + AFd		
Returning from maximum temperature alarm	Temp. ≤ Set + HAL - AFd (HAL > 0)	Temp. ≤ HAL - AFd		
	* if LAL is negative, Set + LAL < Set **if HAL is negative, Set + HAL < Set			

TECHNICAL DATA (EN 60730-2-9)

Classification: control device (not safety) to integrate Mounting: panel mounting with 71x29 mm (+0.2/-0.1 mm) drilling template Control type: 1.B 2 Pollution rating: Material class: Illa Overvoltage category class: Ш Nominal impulsive voltage: 2500V Temperature: Operating: -5 ... +55 °C - Storage: -30 ... +85 °C Power Supply: 230V~ (±10%) 50/60 Hz Consumption: 4.5W max Digital Output (relays): please refer to the device label Fire resistance class: D Software class: А

NOTE: check the power supply specified on the instrument label; for relay, power supply capacities and PTC probes, contact the Sales Office.

FURTHER INFORMATIONS

Input Characteristics								
Display Range: Accuracy: Resolution: Buzzer:	NTC: -50.0°C +110°C; PTC: -55.0°C +140°C (on display with 3 d Better than 0,5% of full-scale + 1 digit 0,1 °C YES (it depends from model)							
Analogue Input:				1/07/				
Digital Input:		NTC input (EWPlus 961) or 2 NTC inputs (EWPlus 971/974) voltage-free digital input (D.I.1)						
Output Characteristics								
Digital Output:	EWPlus 961:	1 Compressor relay: \	UL60730	2 Hp (12FLA - 72LRA) max 240V~				
	EWPlus 971:	1 Defrost relay: 1 Compressor relay: 1		6(3)A max 250V~ 2 Hp (12FLA - 72LRA) max 240V~				
	EWPlus 974:	1 Compressor relay: \		6(3)A max 250V~ 1.5 Hp (10FLA - 60LRA) max 240V~				
Mechanical Characteristics								
Casing:	PC+ABS UL94 V-	0 resin casing, polycark	oonate window, t	nermoplastic resin keys				
Dimensions:	front panel 74x32	2 mm, depth 59 mm (wi	ithout terminals)					
Terminals:		table terminals for cable		er of 2.5mm²				
Connectors:		on of Unicard / Copy Ca						
Humidity:	Operating / Stora	age: 1090 % RH (non-	-condensing)					
Regulations								
Electromagnetic compatibility:	The device confo	orms to Directive 2004/1	108/EC					
Safety:	The device confo	orms to Directive 2006/9	95/EC					
Food Safety:	- suitable for s - application:	air	3485 as follows:					
	- climate rang		ram 25°C to 150	<u>^</u>				
		nt class 1 in the range fi g Eliwell NTC probes)						
NOTE: The technical specification				courses resolution atc.) refer to the				

NOTE: The technical specifications given in this document regarding measurement (range, accuracy, resolution, etc.) refer to the instrument and not to any accessories provided, such as the probes. This means, for example, that the error introduced by the probe must be added to the typical error of the instrument.

ELECTRICAL CONNECTIONs

Attention! Make sure the machine is switched off before working on the electrical connections.

The instrument is equipped with screw or disconnectable terminal blocks for connecting electrical cables with a max. diameter of 2.5 mm² (one wire per terminal for power connections): for the terminal ratings, see the label on the instrument. Do not exceed the maximum permissible current; in case of higher loads, use a suitably rated contactor. Make sure the power supply voltage complies with that required by the instrument. Probes have no connection polarity and can be extended using a normal bipolar cable (note that the extension of the probes influences the electromagnetic compatibility - EMC - of the instrument: take great care with the wiring). Probe cables, power supply cables and the TTL serial cable should be routed separately from power cables.

	TABLE	OF "INSTALLER" M	ENU P	ARA	METER	S		
PAR.	DESCRIPTION		RANGE	M.U.	EWPlus 961	EWPlus 971	EWPlus 974	LEVE
SEt	Temperature control SEtpoint.		LSE HSE	°C/°F	0.0	0.0	0.0	
	The SEtpoint is visible from the "machine s COMPRESSOR ('CP' folder)	tatus" menu oniy.						
154	diFferential. Compressor relay activation different	ial.	0.4 00.0	00/05	0.0	0.0	0.0	4.0.0
dF1	N.B.: diF cannot be equal to 0.		0.1 30.0	°C/°F	2.0	2.0	2.0	1&2
HSE	Maximum value that can be assigned to the Setp interdependent: HSE cannot be less than L	oint. N.B.: The two Setpoints are SE and vice-versa.	LSE 320	°C/°F	99.0	99.0	99.0	1&2
LSE	Minimum value that can be assigned to the Setp	pint. N.B.: The two Setpoints are	-67.0 HSE	°C/°F	-50.0	-50.0	-50.0	1&2
HC	interdependent: LSE cannot be higher tha The regulator will go to HOT operating mode (' H ')		C/F	flag	-30.0 C	-30.0	-30.0	2
пс	Controller ON time for faulty probe.		U/r	llag	L			2
Ont	 if Ont = 1 and OFt = 0, the compressor remains ON if Ont > 0 and OFt > 0, it runs in duty cycle mode. Controller OFF time for faulty probe. 			min	0	0	0	2
OFt	Controller OFF time for faulty probe. - if OFt = 1 and Ont = 0, the compressor remain - if Ont > 0 and OFt > 0, it runs in duty cycle mo	0 250	min	1	1	1	2	
dOn	Compressor relay activation delay after request.		0250	secs	0	0	0	2
dOF	Delay after switching off and subsequent activation		0250	min	0	0	0	2
dbi OdO	Delay between two consecutive compressor activ		0 250	min	0	0	0	2
(!)	Delay in activating outputs after the instrument is 0 = not active .	switched on or alter a power failure.	0250	min	0	0	0	2
	DEFROST ('dEF' folder)							
	Type of defrost. O = electric defrost - compressor OFF during defr	ant mula						
dty	 electric derrost - compressor OFF during derrost = cycle inversion defrost (hot gas) - compressor = 'Free': defrosting independently of compress 	ON during defrost cycle	0/1/2	num		0	0	1&
dit	Interval between the start of two consecutive def	ost cycles.	0250	hours	6	6	6	1&
	 0 = function disabled (defrosting NEVER performance) Selects the count mode for the defrost interval: 0 = compressor hours of operation (DIGIFROST[®] Defrost active ONLY when the compressor is 	method);						
	NOTE: compressor operation time is count	ed separately from the evaporator						
dCt	probe (count active also when evaporator		0/1/2/3	num	1	1	1	2
	1 = appliance running hours = the defrost count is always active when the machine is on and starts at each power-on;							
	2 = compressor stop Every time the compressor according to parameter dtY;	stops, a defrost cycle is performed						
	3 = temperature.							
	Defrost start delay time after request.	and the second	059	min	0	0	0	2
dEt dS1	Defrost time-out; determines the maximum defr Defrost end temperature (determined by the eva		1 250 -67.0 320	min °C/°F	30	30 8.0	30 8.0	1&
dPO	Determines whether the instrument must enter of				n			2
uru	measured by the evaporator allows this operation	n). n = no; y = yes.	n/y	flag	n	n	n	Z
	FANS ('FAn' folder) Characterizes the "FSt" parameter that can be exp	pressed or as an absolute temperature						
FPt	value or as a value related to Setpoint. 0 = absol	ute; 1 = relative.	0/1	flag			0	2
FSt	Fan lock temperature; if Pb2 > FSt , the fans are The value is either positive or negative and, depe be either the absolute temperature or the tempe	nding on parameter FPt , can	-67.0 320	°C/°F			50.0	1&
FAd	Fan starting differential (see parameter FSt).		1.0 50.0	°C/°F			2.0	2
Fdt	Delay time in activating fans after a defrost opera	tion.	0250	min		<u>^</u>	0	18
dt dFd	drainage time. Dripping time. Allows to select the evaporator fans exclusion du	ing defrect u - vec: n - ne	0 250 n/y	min flag		0	0 V	1&2
uru	Evaporator fans operating mode. The state of the		11/y	llay			у	100
	DAY	NIGHT						
	H42 FCO COMPRESSOR COMPRESSOR ON OFF	COMPRESSOR COMPRESSOR ON OFF						
	0 Regulated by Pb2 OFF	Regulated by Pb2 OFF						
	II Regulated by Pb2 Regulated by Pb2 Q Regulated by Pb2 Dutycycle Day	Regulated by Pb2 Regulated by Pb2 Regulated by Pb2 Dutycycle Night						
FCO	3 Dutycycle Day Dutycycle Day	Dutycycle Night Dutycycle Night	0/1/2/3	num			1	2
	0 ON OFF 1 ON Dutycycle Day	ON OFF ON Dutycycle Night						
	2 ON Dutycycle Day	ON Dutycycle Night						
	3 Dutycycle Day Dutycycle Day	Dutycycle Night Dutycycle Night						
	Dutycycle Day: controlled by means of parar Dutycycle Night: controlled by means of parar	neters "Fon" and "FoF". Deters "Fon" and "FoF"						
	ALARMS ('AL' folder)		 					
Λ++	Parameters HAL and LAL intended as the absolut	e temperature value or differential in	0/1	pure	1	1	1	2
Att	relation to the setpoint. 0 = absolute value; 1 =	relative value.	0/1	num	1	1		2
AFd	Alarm differential.		1.0 50.0	°C/°F	2.0	2.0	2.0	2

PAR.	DESCRIPTION	RANGE	M.U.	EWPlus 961	EWPlus 971	EWPlus 974	LEVEL
HAL(!)	Maximum temperature alarm. Temperature value (intended either as distance from Setpoint or as an absolute value based on Att) which, if exceeded in an upward direction, triggers the activation of the alarm signal. See "Max/Min Temperature Alarms" .	LAL 320	°C/°F	50.0	50.0	50.0	1&2
LAL(!)	Minimum temperature alarm. Temperature value (intended as distance from the set point or as an absolute value based on Att) which, when exceeded downwards, triggers the activation of the alarm signal. See "Max/Min Temperature Alarms" .	-67.0 HAL	°C/°F	-50.0	-50.0	-50.0	1&2
PAO (!)	Alarm exclusion time after instrument switch on, after a power failure. This parameter refers to high/low temperature alarms only.	0 10	ore	0	0	0	2
dÃO	Temperature alarm exclusion time after defrost.	0 999	min	0	0	0	2
OAO	Alarm signaling delay after digital input disabling (door close). This parameter refers to high/low temperature alarms only.	010	ore	0	0	0	2
td0	Alarm activation delay time open door.	0250	min	0	0	0	2
tAO	Temperature alarm signal delay time. This parameter refers to high/low temperature alarms only.	0250	min	0	0	0	1&2
dAt	Alarm for defrosting ended due to time out. $\mathbf{n} = $ alarm deactivated; $\mathbf{y} = $ alarm activated.	n/y	flag		n	n	2
rLO	External alarm locks controllers. \mathbf{n} = does not lock; \mathbf{y} = locks.	n/y	flag	n	n	n	2
	LIGHTS & DIGITAL INPUTS ('Lit' folder)						
dOd	Enable utility switch-off on activation of door switch. 0 = disabled;	0/1/2/3	num	0	0	0	2
	1 = disables fans; 2 = disables compressor; 3 = disables fans and compressor. Activation delay for digital input.	0255	min	0	0	0	2
uAu	ENERGY SAVING ('EnS' folder)	0255	111111	0	0	0	Z
OSP	Offset on setpoint.	-30.0 30.0	°C/°F	1.0	1.0	1.0	2
051	DISPLAY ('diS' folder)	50.0 50.0	C/ T	1.0	1.0	1.0	2
LOC	LOCk. Setpoint change shutdown. There is still the possibility to enter into parameters programming and modify these, including the status of this parameter to permit keyboard shutdown. $\mathbf{n} = no$; $\mathbf{y} = yes$.	n/y	flag	n	n	n	1&2
PS1	PAssword 1. When enabled (PS1 ≠ 0), this is the access key to level 1 parameters (User).	0250	num	0	0	0	1&2
PS2	PAssword 2. When enabled (PS2 \neq 0), this is the access key to level 2 parameters (Installer).	0250	num	15	15	15	2
ndt	Display with decimal point. $\mathbf{n} = $ no (integers only); $\mathbf{y} = $ yes.	n/y	flag	у	у	у	2
CA1	Calibration 1. Positive or negative temperature value added to the value read by Pb1 . This sum is used both for the temperature displayed and for regulation.	-12.0 12.0	°C/°F	0.0	0.0	0.0	1&2
CA2	Calibration 2. Positive or negative temperature value added to the value read by Pb2 . This sum is used both for the temperature displayed and for regulation.	-12.0 12.0	°C/°F		0.0	0.0	1&2
ddL	 Display mode during defrost. O = display the temperature read by Pb1; 1 = locks the reading on the temperature value read by Pb1 when defrosting starts, and until the next time the SEt value is reached; 2 = displays the label deF during defrosting, and until the next time the SEt value is reached. 	0/1/2	num	1	1	1	1&2
dro	Select °C or °F for displaying the temperature read by probes. 0 = °C, 1 = °F. NOTE: switching between °C and °F or vice-versa DOES NOT modify the SEt, diF values, etc. (e.g. Setpoint=10°C becomes 10°F).	0/1	num	0	0	0	2
ddd	Selection of type of value to be displayed. 1 = probe Pb1; 2 = probe Pb2; 3 = not used; 4 = Display "ON"; 5 = not used.	0 5	num	1	1	1	2
ddE	Selection of value to display on ECHO (ECPlus). 1 = probe Pb1; 2 = probe Pb2; 3 = not used; 4 = Setpoint.	0 4	num	1	1	1	2
	CONFIGURATION ('CnF' folder) - NOTE: the instrument must be switched off and then	on again each t	ime folde	r CnF parameter	configuration is	modified to prev	vent
	any malfunction of the configuration and/or cu	rrent timer oper	rations.				
H08	 Stand-by operating mode. 0 = display switch off; the loads are active and the device reactivates the display to signal any alarms; 1 = display switch off, loads and alarms stopped; 2 = display with OFF label, loads and alarms stopped. 	0/1/2	num	2	2	2	2
H11	Configuration of digital input 1/polarity (D.I.1). $0 = \text{disabled}; \pm 1 = \text{defrost}; \pm 2 = \text{reduced SET}; \pm 3 = \text{AUX}; \\ \pm 4 = \text{door switch}; \pm 5 = \text{external alarm}; \pm 6 = \text{stand-by (ON-OFF}); \\ \pm 7 = \text{not used}; \pm 8 = \text{deep cooling}; \pm 9 = \text{not used}; \pm 10 = \text{not used}.$ NOTE: - the '+' sign indicates that the input is active if the contact is closed - the '-' sign indicates that the input is active if the contact is open	-10 10	num	0	0	0	2
H21	Configurability of digital output 1 (A). 0 = disabled; 1 = compressor; 2 = defrost; 3 = fans; 4 = alarm; 5 = AUX; 6 = Stand-by; 7 = not used; 8 = condenser fan change rotation; 9 = Heater; 10 = defrost on 2nd evaporator; 11 = 2nd compressor.	011	num	1	1	1	2
	Configurability of digital output 2 (B). Same as H21.	011	num		2	2	2
H23	Configurability of digital output 3 (C). Same as H21.	0 11	num			3	2
H32	Configurability of DOWN key. 0 = disabled; 1 = defrost; 2 = AUX; 3 = reduced SET; 4 = Stand-by; 5 = deep cooling; 6 = not used.	06	num	0	0	0	2
H42	Evaporator probe present (Pb2). n = not present; y = present.	n/y	flag		у	у	1&2
reL	reLease firmware. Device version: read-only parameter.	1		1	/		1&2
tAb	tAble of parameters. Reserved: read-only parameter.	/		/	/	1 /	1&2

PAR.	DESCRIPTION	RANGE	M.U.	EWPlus 961	EWPlus 971	EWPlus 974	LEVEL
	COPY CARD ('Fpr' folder)						
UL	Upload. Programming parameter transfer from instrument to Copy Card.	/	/				
Fr	Format Copy Card. Erase all data contained in the Copy Card ATTENTION: If parameter "Fr" is used, the data entered will be permanently lost. This operation cannot be cancelled.	/	/	1	/	/	
	lost. This operation cannot be cancelled.						

LIABILITY AND RESIDUAL RISKS

ELIWELL CONTROLS SRL declines any liability for damage due to:

- installation/uses different from those specified and, in particular, not complying with the safety regulations and/or instructions given in this document;
- use on panels that do not provide adequate protection against electric shocks, water or dust when assembled;
- use on panels allowing access to dangerous parts without the use of tools;
- tampering with and/or modifying the product;
- installation/use on panels not complying with current standards and regulations.

DISCLAIMER

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The same applies to any person or company involved in preparing and editing this document.

ELIWELL CONTROLS SRL reserves the right to make aesthetic or functional changes at any time without notice.

CONDITIONS OF USE

Permitted use

For safety reasons, the instrument must be installed and used according to the instructions supplied and, in particular, parts under dangerous voltages must not be accessible in normal conditions. The device must be adequately protected from water and dust with regard to its application, and must only be accessible using tools (except for the front panel).

The device is suitable for use in household refrigeration appliances and/or similar equipment and has been tested for safety aspects in accordance with the harmonised European reference standards.

Improper use

Any use other than that expressly permitted is prohibited. The relay contacts provided are of a functional type and subject to failure: any protection devices required by product standards, or suggested by common sense for obvious safety requirements, must be installed externally to the instrument.





