EWPlus 961/971/974

Electronic controllers for refrigeration units



USER INTERFACE



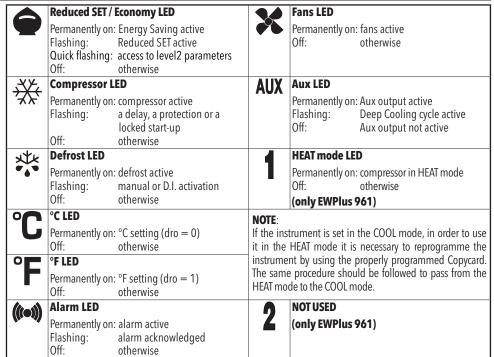
EW-LUS 961



EW-LUS 971/974

NOTE:

When switched on, the device performs a Lamp Test; the display and LEDs will flash for several seconds to check that they all function correctly.



KEYs



U٢

Press and release

- Scroll menu items
- Increases values

Press for at least 5 sec

Activates the Manual Defrost function



DOWN

Press and release

- Scroll menu items
- Decrease values

Press for at least 5 sec

• Function can be configured by the user ((see parameter H32)



STAND-BY (ESC)

Press and release

- Returns to the previous menu level
- Confirms parameter value

Press for at least 5 sec

Attiva la funzione Stand-by (OFF)
 (quando non sono all'interno dei menu)



SET (ENTER)

Press and release

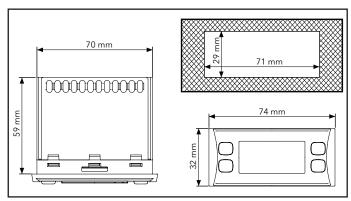
- Displays alarms (if active)
- Opens Machine Status menu

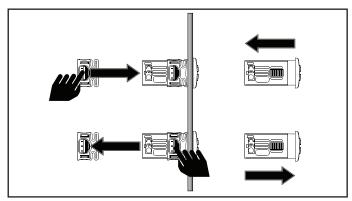
Press for at least 5 sec

- Opens Programming menu
- Confirm commands

MOUNTING - 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.

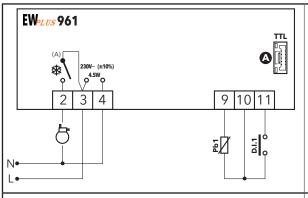




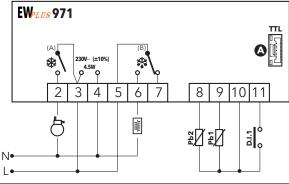




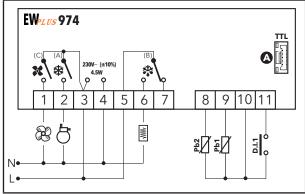
CONNECTIONS



EWPlus 961 TERMINALs					
3-2	Compressor relay (**)				
3-4	230V~ power supply input				
10-9	Pb1 probe				
10-11	Digital Input 1				
N-L	230V~ power supply				
TTL	TTL input				

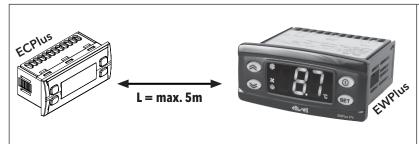


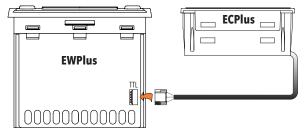
EWPlus 971 TERMINALs
Compressor relay (**)
230V~ power supply input
N.O. Defrost relay (🗱)
N.C. Defrost relay (**)
Pb2 probe
Pb1 probe
Digital Input 1
230V~ power supply
TTL input



EWPlus 974 TERMINALs					
3-1	Fans relay (**)				
3-2	Compressor relay (**)				
3-4	230V~ power supply input				
5-6	N.O. Defrost relay (**)				
5-7	N.C. Defrost relay (**)				
10-8	Pb2 probe				
10-9	Pb1 probe				
10-11	Digital Input 1				
N-L	230V~ power supply				
TTL	TTL input				

ECPLUS + EWPLUS CONNECTIONS





PASSWORD

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

To enable it (**PA1≠0**): press and hold **set** for longer than 5 seconds, scroll through the parameters using and until you see the label **PS1**, press **set** to display the value, modify it using and the nabled, 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≠15): press and hold set for longer than 5 seconds, scroll through the parameters using and until you see the label PA2, press set, set the value to "15" using and the label parameters using and until you see the label parameters set to enter. Scroll through the parameters using and until you see the label parameters set to display the value, modify it using and the parameters using and the value, modify it using and the parameters using the value, modify it using and the parameters using the value, modify it using the parameters using the value, modify it using the value, modify it using the value, modify it using the value it by pressing set or the value is parameters using the value in the value is parameters using the value i

- 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 2/8

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;- Pb1: probe 1 Pb1 folder;
- Pb2: 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 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 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 and to scroll through all the parameters on the current level. Select the desired parameter by pressing set.

Press 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 and until folder **FPr** appears. Select it using set, scroll through the parameters using and the instrument parameters.

• **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.



EWPlus + ECPlus 3/8

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 $OdO \neq 0$ (**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 (...).

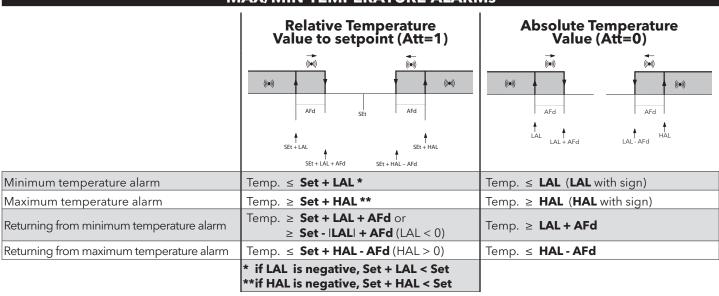
To switch off the buzzer, press and release any key; the corresponding icon will continue to flash.

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 	 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 defrost 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



EWPlus + ECPlus 4/8

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
Pollution rating: 2
Material class: Illa
Overvoltage category class: II
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: A

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: NTC: -50.0°C ... +110°C; PTC: -55.0°C ... +140°C (on display with 3 digit + sign)

Accuracy: Better than 0,5% of full-scale + 1 digit

Resolution: 0,1 °C

Buzzer: YES (it depends from model)

Analogue Input: 1 NTC input (EWPlus 961) or 2 NTC inputs (EWPlus 971/974)

Digital Input: 1 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: N.A. 8(4)A - N.C. 6(3)A max 250V~

1 Compressor relay: UL60730 2 Hp (12FLA - 72LRA) max 240V~

EWPlus 974: 1 Defrost relay: N.A. 8(4)A - N.C. 6(3)A max 250V~

1 Compressor relay: UL60730 1.5 Hp (10FLA - 60LRA) max 240V~

1 Fans relay: 5(2)A max 250V~

Mechanical Characteristics

Casing: PC+ABS UL94 V-0 resin casing, polycarbonate window, thermoplastic resin keys

Dimensions: front panel 74x32 mm, depth 59 mm (without terminals)

Terminals: screw/disconnectable terminals for cables with a diameter of 2.5mm²

Connectors: TTL for connection of Unicard / Copy Card

Humidity: Operating / Storage: 10...90 % RH (non-condensing)

Regulations

Electromagnetic compatibility: The device conforms to Directive 2004/108/EC Safety: The device conforms to Directive 2006/95/EC

Food Safety: The device complies with standard EN13485 as follows:

suitable for storageapplication: airclimate range A

- measurement class 1 in the range from -25°C to 15°C

(exclusively using Eliwell NTC probes)

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.

EWPlus + ECPlus 5/8

	TABLE OF "INSTALLER" M	ENU P	ARA	METER	S		
PAR.	DESCRIPTION	RANGE	M.U.	EWPlus 961	EWPlus 971	EWPlus 974	LEVEL
SEt	Temperature control SEtpoint. The SEtpoint is visible from the "machine status" menu only.	LSE HSE	°C/°F	0.0	0.0	0.0	
dF1	COMPRESSOR ('CP' folder) diFferential. Compressor relay activation differential. 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 Setpoint. N.B.: The two Setpoints are interdependent: HSE cannot be less than LSE and vice-versa.	LSE 320	°C/°F	99.0	99.0	99.0	1&2
LSE	Minimum value that can be assigned to the Setpoint. N.B.: The two Setpoints are interdependent: LSE cannot be higher than HSE and vice-versa.	-67.0 HSE	°C/°F	-50.0	-50.0	-50.0	1&2
НС	The regulator will go to HOT operating mode ('H') or COLD operating mode ('C')	C/F	flag	С			2
Ont	Controller ON time for faulty probe if Ont = 1 and OFt = 0, the compressor remains ON - if Ont > 0 and OFt > 0, it runs in duty cycle mode.	0 250	min	0	0	0	2
OFt	Controller OFF time for faulty probe if OFt = 1 and Ont = 0, the compressor remains OFF - if Ont > 0 and OFt > 0, it runs in duty cycle mode.	0 250	min	1	1	1	2
dOn	Compressor relay activation delay after request.	0250	secs	0	0	0	2
dOF dbi	Delay after switching off and subsequent activation. Delay between two consecutive compressor activations.	0 250 0 250	min min	0	0	0	2 2
OdO	Delay in activating outputs after the instrument is switched on or after a power failure. 0 = not active .	0250	min	0	0	0	2
(!)	DEFROST ('dEF' folder)						
dty	Type of defrost. 0 = electric defrost - compressor OFF during defrost cycle 1 = cycle inversion defrost (hot gas) - compressor ON during defrost cycle 2 = 'Free': defrosting independently of compressor	0/1/2	num		0	0	1&2
dit	Interval between the start of two consecutive defrost cycles. 0 = function disabled (defrosting NEVER performed)	0 250	hours	6	6	6	1&2
	Selects the count mode for the defrost interval: 0 = compressor hours of operation (DIGIFROST® method); Defrost active ONLY when the compressor is on. NOTE: compressor operation time is counted separately from the evaporator probe (count active also when evaporator probe missing or faulty).	0.14.10.10					
dCt	 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 stops, a defrost cycle is performed according to parameter dtY; 3 = temperature. 	0/1/2/3	num	1	1	1	2
dOH	Defrost start delay time after request.	059	min	0	0	0	2
dEt	Defrost time-out; determines the maximum defrost duration.	1 250 -67.0 320	min °C/°F	30	30	30	1&2
dS1 dPO	Defrost end temperature (determined by the evaporator probe). Determines whether the instrument must enter defrost mode (if the temperature				8.0	8.0	1&2
uro	measured by the evaporator allows this operation). n = no; y = yes. FANS ('FAn' folder)	n/y	flag	n	n	n	Z
FPt	Characterizes the "FSt" parameter that can be expressed or as an absolute temperature value or as a value related to Setpoint. 0 = absolute; 1 = relative.	0/1	flag			0	2
FSt	Fan lock temperature; if Pb2 > FSt , the fans are stopped. The value is either positive or negative and, depending on parameter FPt , can be either the absolute temperature or the temperature relative to the Setpoint.	-67.0 320	°C/°F			50.0	1&2
FAd	Fan starting differential (see parameter FSt).	1.0 50.0	°C/°F			2.0	2
Fdt dt	Delay time in activating fans after a defrost operation. drainage time. Dripping time.	0 250 0 250	min min		0	0	1&2 1&2
dFd	Allows to select the evaporator fans exclusion during defrost. $\mathbf{y} = \text{yes}$; $\mathbf{n} = \text{no}$.	n/y	flag		0	у	1&2
	Evaporator fans operating mode. The state of the fans will be:						
	H42 FCO COMPRESSOR COMPRESSOR OFF COMPRESSOR OFF 0 Regulated by Pb2 OFF Regulated by Pb2 OFF						
FCO	1 Regulated by Pb2 Regulated by Pb2 Regulated by Pb2 Regulated by Pb2 2 Regulated by Pb2 Dutycycle Day Regulated by Pb2 Dutycycle Night 3 Dutycycle Day Dutycycle Day Dutycycle Night Dutycycle Night 6 ON OFF ON OFF	0/1/2/3	num			1	2
	1 ON Dutycycle Day ON Dutycycle Night 2 ON Dutycycle Day ON Dutycycle Night 3 Dutycycle Day Dutycycle Day Dutycycle Night Dutycycle Nigh						
	Dutycycle Day: controlled by means of parameters "Fnn" and "FnF".						
	ALARMS ('AL' folder)						
Att	Parameters HAL and LAL intended as the absolute temperature value or differential in relation to the setpoint. 0 = absolute value; 1 = relative value.	0/1	num	1	1	1	2
AFd	Alarm differential.	1.0 50.0	°C/°F	2.0	2.0	2.0	2

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PΔR	DESCRIPTION	RANGE	M.U.	EWPlus 961	EWPlus 971	EWPlus 974	LEVEL
	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
dAO	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.	0 10	ore	0	0	0	2
tdO	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.	0 250	min	0	0	0	1&2
dAt	Alarm for defrosting ended due to time out. $\mathbf{n} = \text{alarm deactivated}$; $\mathbf{y} = \text{alarm activated}$.	n/y	flag		n	n	2
rLO	External alarm locks controllers. $\mathbf{n} = \text{does not lock}$; $\mathbf{y} = \text{locks}$.	n/y	flag	n	n	n	2
	LIGHTS & DIGITAL INPUTS ('Lit' folder)						
dOd	Enable utility switch-off on activation of door switch. 0 = disabled; 1 = disables fans; 2 = disables compressor; 3 = disables fans and compressor.	0/1/2/3	num	0	0	0	2
dAd	Activation delay for digital input.	0 255	min	0	0	0	2
	ENERGY SAVING ('EnS' folder)						
OSP	Offset on setpoint.	-30.0 30.0	°C/°F	1.0	1.0	1.0	2
	DISPLAY ('dis' folder)		1				
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. $\mathbf{n} = \text{no}$; $\mathbf{y} = \text{yes}$.	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 ≠ 0), this is the access key to level 2 parameters (Installer).	0250	num	15	15	15	2
ndt	Display with decimal point. $\mathbf{n} = \text{no (integers only)}; \mathbf{y} = \text{yes.}$	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. 0 = 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. 0 = Setpoint;	05	num	1	1	1	2
ddE	1 = probe Pb1; 2 = probe Pb2; 3 = not used; 4 = Display "ON"; 5 = not used. Selection of value to display on ECHO (ECPlus). 0 = Disabled (not present); 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	er CnF parameter	configuration is	modified to prev	ent
	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 = disabled; ± 1 = defrost; ± 2 = reduced SET; ± 3 = AUX; ± 4 = door switch; ± 5 = external alarm; ± 6 = stand-by (ON-OFF); ± 7 = not used; ± 8 = deep cooling; ± 9 = not used; ± 10 = 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. Configurability of DOWN key.	0 11	num			3	2
H32	0 = disabled; 1 = defrost; 2 = AUX; 3 = reduced SET; 4 = Stand-by; 5 = deep cooling; 6 = not used.	06	num	0	0	0	2
	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&2
	tAble of parameters. Reserved: read-only parameter.	/	/	/	1	/	1&2

EWPlus + ECPlus 7/8

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.	1	1	1	1	1	
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	/	

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.

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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.



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