EWDR 981

The EWDR981 controller has two analogue inputs for NTC temperature probes (parameter selectable PTC) and one voltage-free digital relay output for the

The controller also has a 12V-20mA output to manage additional loads like alarms. The defrost cycle is managed by the compressor stop.

The two analog inputs are used for temperature control and display purposes.

The value read by the probe is displayed with three digits plus the minus sign. Reading with a decimal point is parameter-programmable. The buzzer is optional. All versions have a TTL connection to allow the use of the Copy Card quick programming accessory.

All models have two voltage-free programmable digital inputs. The power supply is 230V~.

EWDR 983 - EWDR 983/C, /CS LX

The EWDR 983 controller has three analogue inputs for NTC temperature probes (parameter selectable PTC) and two voltage-free digital relay outputs for the compressor and defrost. The controller also has a 12V-20mA output to manage additional loads like alarms. The defrost cycle may be time-terminated or terminated by the special probe on the evaporator when the end cycle temperature is reached. The three analog inputs are used for temperature control, defrost and display purposes (or for the defrost of the second evaporator).

The value read by the probe is displayed with three digits plus the minus sign. Reading with a decimal point is parameter-programmable. The buzzer is optional. All versions have a TTL connection to allow the use of the Copy Card quick programming accessory.

/C /CS models also have:

- An internal clock (RTC) for the management of defrost operations (on /C /CS
- An optoisolated RS 485 internal connector for the connection to Televis System (for (/CS models only)

All models have two voltage-free programmable digital inputs.

The power supply is 230V~.

TERM MALAL C

EWDR 984

The EWDR 984 controller has three analogue inputs for NTC temperature probes (parameter selectable PTC) and three voltage-free digital relay outputs to control the compressor, defrost cycle and the evaporator fans.

The controller also has a 12V-20mA output to manage additional loads like alarms. The defrost cycle may be time-terminated or terminated by the special probe on the evaporator when the end cycle temperature is reached.

The three analog inputs are used for temperature control, defrost and display purposes (or for the defrost of the second evaporator)

The value read by the probe is displayed with three digits plus the minus sign.

Reading with a decimal point is parameter-programmable. The buzzer is optional. All versions have a TTL connection to allow the use of the Copy Card guick programming accessory.

All models have two voltage-free programmable digital inputs.

The power supply is 230V~.

EWDR 985 - EWDR 985/CS LX

The EWDR 985 controller has three analogue inputs for NTC temperature probes (parameter selectable PTC) and four voltage-free digital relay outputs to control the compressor, defrost cycle, lights and fans of the evaporator, or one auxiliary ON-OFF light output. The controller also has a 12V-20mA output to manage additional loads like alarms.

The three analog inputs are used for temperature control, defrost and display purposes (or for the defrost of the second evaporator).

The defrost cycle may be time-terminated or terminated by the special probe on the evaporator when the end cycle temperature is reached. The value read by the probe is displayed with three digits plus the minus sign. Reading with a decimal point is parameter-programmable. The buzzer is optional.

All versions have a TTL connection to allow the use of the Copy Card guick programming accessory.

/CS LX models also have:

- An internal clock (RTC) for the management of defrost operations
- An optoisolated RS 485 internal connector for the connection to Televis System

All models have two voltage-free programmable digital inputs.

The power supply is 230V~

EWDR 985/CS LX Fan Condenser

The EWDR 985 controller has three analogue inputs for NTC temperature probes (parameter selectable PTC) and four voltage-free digital relay outputs to control the compressor, defrost cycle, lights and fans of the evaporator and condenser, or one auxiliary ON-OFF light output.

The controller also has a 12V-20mA output to manage additional loads like alarms. The three analog inputs are used for temperature control, defrost and display purposes (or for the defrost of the second evaporator).

The defrost cycle may be time-terminated or terminated by the special probe on the evaporator when the end cycle temperature is reached. The value read by the probe is displayed with three digits plus the minus sign. Reading with a decimal point is parameter-programmable. The buzzer is optional.

All versions have a TTL connection to allow the use of the Copy Card guick programming accessory.

All versions also have:

- A dedicated parameter for the management of fans
- An optoisolated internal RS 485 connection
- A specific connector for the connection to Televis**System**

All models have two voltage-free programmable digital inputs.

The power supply is 230V~.

EWDR 981

TERMIN	ALS
1-2	Probe input 1
1-4	Probe input 2
5-6	Digital input 1
5-7	Digital input 2
8-9	* Alarm output
13-14	Power supply 230V~
19-22	* N.C. compressor relay
20-21	* N.O. compressor relay

TTL input for Copy Card

COMPATIBILITY AND REPLACEMENT: **EWDR 961**

EWDR 983 - EWDR 983/C, /CS LX

I ERMIN	ALS
1-2	Probe input 1
1-3	Probe input 2
1-4	Probe input 3
5-6	Digital input 1
5-7	Digital input 2
8-9	* Alarm output
10-12	RS485 network
13-14	Power supply 230V~
17-18	* N.O. defrost relay
17-19	* N.C. defrost relay
20-21	* N.O. compressor relay
22-23	* N.C. compressor relay
Α	TTL input for Copy Card
+ D	and a second annual state

EWDR 961/AR • EWDR 970 • EWPX 971 EWDR 983/C EWDR 961/AR/C

COMPATIBILITY AND REPLACEMENT:

FWDR 983LX EWDR 961/AR/C/S • EWDR 961/S

EWDR 984

TERMINALS

1-2	Probe input 1
1-3	Probe input 2
1-4	Probe input 3
5-6	Digital input 1
5-7	Digital input 2
8-9	* Alarm output
13-14	Power supply 230V~
15-16	* N.O. evaporator fan relay
17-19	* N.C. compressor relay
18-19	* N.O. compressor relay
20-22	* N.O. defrost relay
A	TTL input for Copy Card

^{*} Parameter-configurable

EWDR 985 - EWDR 985/CS LX

1-2	Probe input 1
1-3	Probe input 2
1-4	Probe input 3
5-6	Digital input 1
5-7	Digital input 2
8-9*	Auxiliary output
13-14	Power supply 230V~
15-16	* N.O. compressor relay output
17-19	* N.C. defrost relay output
17-18	* N.O. defrost relay output
20-22	* N.O. light relay output
23-24	* N.O. evap. fan relay output
10-12	RS485 network
Α	TTL input for Copy Card
* Param	neter-configurable

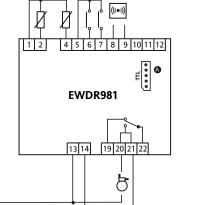
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COMPATIBILITY AND REPLACEMENT: **EWDR 985** EWDR 974/AR

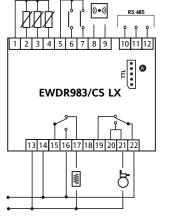
EWDR 985LX EWDR 973/S

EWDR 985/CS LX Fan Condenser

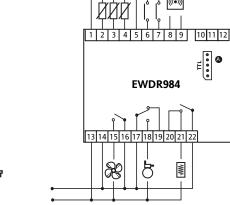
1-2	Probe input
11-3	Probe input 2
1-4	Probe input 3
5-6	Digital input 1
5-7	Digital input 2
8-9*	Auxiliary output
13-14	Power supply 230V~
15-16	* N.O. compressor relay output
17-19	* N.C. defrost relay output
17-18	* N.O. defrost relay output
20-22	* N.O. light relay output
23-24	* N.O. evap. fan relay output
10-12	RS485 network
Α	TTL input for Copy Card
* Param	eter-configurable





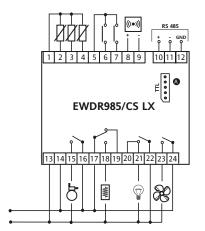


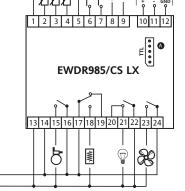




COMPATIBILITY AND REPLACEMENT:

EWDR 974











^{*} Parameter-configurable

^{*} Parameter-configurable

IWP 985 LX - IWK 32x74

The IWP 985 LX power base has three analogue inputs for NTC temperature probes (parameter selectable PTC) and four voltage-free digital relay outputs to control the compressor, defrost, evaporator fans, alarms or one auxiliary ON-OFF light output. The value read by the probe is shown on the display of the standard IWK keyboard (32x74) with tree digits and sign minus.

Reading with a decimal point is parameter-programmable.

The buzzer is optional. All versions have a TTL connection to allow the use of the Copy Card quick programming accessory. The IWP985LX power base has an internal optoisolated RS 485 connector for the connection to the Televis System. It also has two voltage-free programmable digital inputs.

• Some models are also able to manage and store alarms, in compliance with the requirements of HACCP standards.

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The power supply is 230V~

EWDR Series

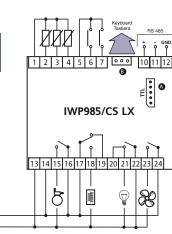
Main characteristics

- Direct 230V power supply ~
- Up to 3 parameter-selectable Ntc/Ptc probes.
- Up to 4 relay outputs.
- 12V analogue output -- AUX on all versions.
- Up to 12 programmable digital inputs.
- Parameter programming via menu.
- Parameter-selectable decimal point on all models.
- Internal optoisolated RS485 converter (for LX models only).
- RTC clock for weekly calendar (for /C models).
- HACCP alarm recording.
- Copy Card.

IWP985 LX

TERMIN	IALS
1-2	Probe 1
1-3	Probe 2
1-4	Probe 3
5-6	Digital input 1
5-7	Digital input 2
10-12	RS485 network
13-14	Power supply 230V~
15-16	* N.O. compressor relay
17-19	* N.C. defrost relay
17-18	* N.O. defrost relay
20-22	* N.O. light relay
23-24	* N.O. evap. fan relay
Α	TTL input for Copy Card
В	Keyboard connection
* Param	neter-configurable

COMPATIBILITY AND REPLACEMENT: EWPC 973 • EWPC 973/S • EWPX 173 • EWPX 173/S • EWDS 341



KEYBOARD IWK 32x74

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EWDR products, available in 4 DIN rail-mounting size (70x85mm), are designed for applications that require the mounting of controllers on DIN rails, like electric boards for cells or, more generally, for applications with centralized electric board.

This line of products has been specifically designed by Eliwell to meet all the needs of customers working in the commercial refrigeration sector.

Devices may have up to three inputs for each NTC temperature probe (parameter selectable PTC), two programmable digital inputs and five outputs, i.e. four relay outputs and one 12V-20mA for the enabling of an external relay.

Outputs can be configured as follows:

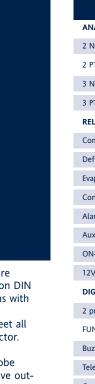
Compressor, defrost, evaporator fans, condensator fans (for the Fan Condenser model), light control, auxiliary output and alarm. The power of the compressor relay (in standard configuration) is 15A 1 hp for all models.

All controllers have a serial RS-485 communication port for TelevisSystem supervision networks or for networks using the ModBUS protocol.

The serial port is optoisolated, like those on all Eliwell controllers, to ensure a greater network stability and reliability.

The "Copy Card" accessory enables to quickly program devices through the TTL port.

The HACCP function is also available as an optional extra to meet the strictest market demands for temperature control of stored food products and comply with the 93/43/EU directives.

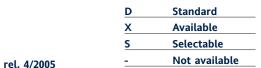


ANALOGUE INPUTS 2 NTC temperature probes 2 PTC temperature probes 3 NTC temperature probes 3 PTC temperature probes **RELAY OUTPUTS**** Compressor Defrost Evaporator fans Condenser fans Alarm Auxiliary output ON-OFF 12V ouput DIGITAL INPUTS 2 programmable inputs **FUNCTIONS** Buzzer Televis Copy Card RTC RS 485, optoisolated ModBUS HACCP POWER SUPPLY 230 V~

Product Selection	n Guid	e									Sales and Support Phone Contact Numbers	
	EWDR 981	EWDR 983	EWDR 983/C LX	EWDR 983/CS LX	EWDR 984	EWDR 985	EWDR 985/CS LX	EWDR Fan Condenser	IWP985LX	IWK	ITALY - Eliwell & Controlli s.r.l Pieve d'Alpago (Belluno)	
ANALOGUE INPUTS	2	3	3	3	3	3	3	2	2	-	Telephone +39 0437 986 111	
2 NTC temperature probes	D	-	-	-	-	-	-	-	-	-	Fax +39 0437 989 066 Sales +39 0437 986 100	
2 PTC temperature probes	S	-	-	-	-	-	-	-	-	-	Technical helpline +39 0437 986 300	
3 NTC temperature probes	-	D	D	D	D	D	D	S	D	-	E-mail techsuppeliwell@invensys.com	
3 PTC temperature probes	-	S	S	S	S	S	S	S	S	-	SPAIN-Eliwell Iberica S.A Valencia Telephone +34 (0) 96 313 40 49	
RELAY OUTPUTS**	1	2	2	2	3	4	4	4	4	-	Fax +34 (0) 96 350 07 87	
Compressor	D	D	D	D	D	D	D	D	D	-	FRANCE-Eliwell France - Paris	
Defrost	-	-	-	D	D	D	D	D	D	-	Telephone +33 (0) 1 41 47 71 71 Fax +33 (0) 1 47 99 99 95	
Evaporator fans	-	-	-	-	Х	-	X	D	D	-	DUSCIA Invensus Messeur Messeur	
Condenser fans	-	-	-	-	-	-	-	X	-	-	RUSSIA - Invensys Moscow - Moscow Telephone +7 095 111 7975	
Alarm	-	D	-	-	Х	-	Х	-	X	-	Fax +7 095 111 7829	
Auxiliary output	-	-	-	-	Х	-	X	-	X	-	GERMANY - EBERLE GmbH - Nürnberg Telephone +49 (0) 911 56 93 586	
ON-OFF	-	-	-	-	Х	-	X	-	X	-	Fax +49 (0) 911 56 93 560	
12V ouput	Χ	Х	Χ	X	Х	Х	X	X	X	-	E-mail techsuppeliwell@invensys.com	
DIGITAL INPUTS	2	2	2	2	2	2	2	2	2	-	UNITED KINGDOM - Invensys Climate	
2 programmable inputs	D	D	D	D	D	D	D	D	D	-	Controls Europe - Slough	
FUNCTIONS											Telephone +44 (0) 845 130 5522 Fax +44 (0) 845 130 0622	
Buzzer	Χ	X	Χ	X	Χ	X	X	Χ	X	X	Technical helpline +44 (0) 845 130 7722 E-mail customer.care@invensys.com	
Televis	-	-	D	D	-	-	D	D	D	-	OTHER COUNTRIES	
Copy Card	D	D	D	D	D	D	D	D	D	-	Telephone +39 0437 986 111	
RTC	-	-	D	D	-	-	D	D	D	-	Fax +39 0437 989 066 Sales +39 0437 986 200	
RS 485, optoisolated	-	-	D	D	-	-	D	D	D	-	Technical helpline +39 0437 986 300 E-mail techsuppeliwell@invensys.com	
ModBUS	-	-	Χ	X	-	-	X	X	X	-	The state of the s	
HACCP	-	-	X	X	-	-	X	X	X	-	www.eliwell.it	
POWER SUPPLY											Invensys Controls Europe	
230 V~	D	D	D	D	D	D	D	D	D	-	An Invenys Company	
SIZE											An Invenys Company	
4 DIN-mounting modules, 70x85mm	•	•	•	•	•	•	•	•	•	-	ŢŸ,	



For more information, please contact:



cod. CT122662

Size

Compressor relay 15A 1hp Other relays 8A 1/2 hp





The range of **Commercial Refrigeration** Controllers for DIN rail mounting.



REFRIGERATION

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