

# IS 974 LX

electronic controller for refrigerating units  
with programmable outputs

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## Description

The IS 974 LX controllers are devices suitable for applications on ventilated normal or low temperature refrigerating units; they include a master unit and a power slave unit (EWEM 243), connected to each other by a multipolar cable with quick coupling. The power unit is provided with two inputs for NTC (PTC can be set by parameter) thermostatic probes and with four relay outputs for compressor, defrost, evaporators fans and alarm management; the alarm relay can also be configured for managing an auxiliary load such as, the lights. The buzzer is optional. The defrosting cycle may be stopped at a specified time or, by using the appropriate probe placed on the evaporator, when the end cycle temperature has been reached. The master unit, provided with a programmable digital input, allows viewing the value that the probe read on the three digit and a minus sign display; the reading with the decimal point can be set by parameter. All versions are provided by TTL connections for using Copy Card, the quick programming accessory, and for connection to the Televis system.

The master unit is available in the 32x74 split format, while the power slave unit in the 4 module DIN format. The power supply voltage is 230 V~.

Probe	Measurement range (°C)
NTC	-50...110,0
PTC	-50...140,0



## Technical Data

### IS 974 LX

Front panel protection: IP65.

Container: PC+ABS UL94 V-0 plastic.

Size: front panel 32x74 mm, depth 30 mm.

Connections: telephone connector for connection to the EWEM extension module as well as to screw clamps for the other connections.

Mounting: panel, with 71x29 mm (+0.2/-0.1 mm) drilling template.

Usage temperature: -5...55 °C.

Storage temperature: -30...85 °C.

Usage environment humidity: 10...90% RH (non condensing).

Storage environment humidity: 10...90% RH decimal point (set by parameter).

Display: 3-digit and a half with a sign.

Digital input: 1 low voltage digital input which can be configured.

Serial: TTL for connecting a Televis system or a Copy Card.

Resolution: 1 or 0.1 °C.

Accuracy: better of 0,5% than the end of scale + 1 digit.

Consumption: 3 VA.

Power supply: from EWEM Slave module.

### EWEM 243

Container: plastic, 4 DIN modules.

Size: front panel 70x85 mm, depth 61 mm.

Mounting: on DIN (Omega 3) guide or on wall.

Connections: telephone connector for connection to the IS main module as well as to screw clamps for the other connections.

Usage temperature: -5...50 °C.

Storage temperature: -30...75 °C.

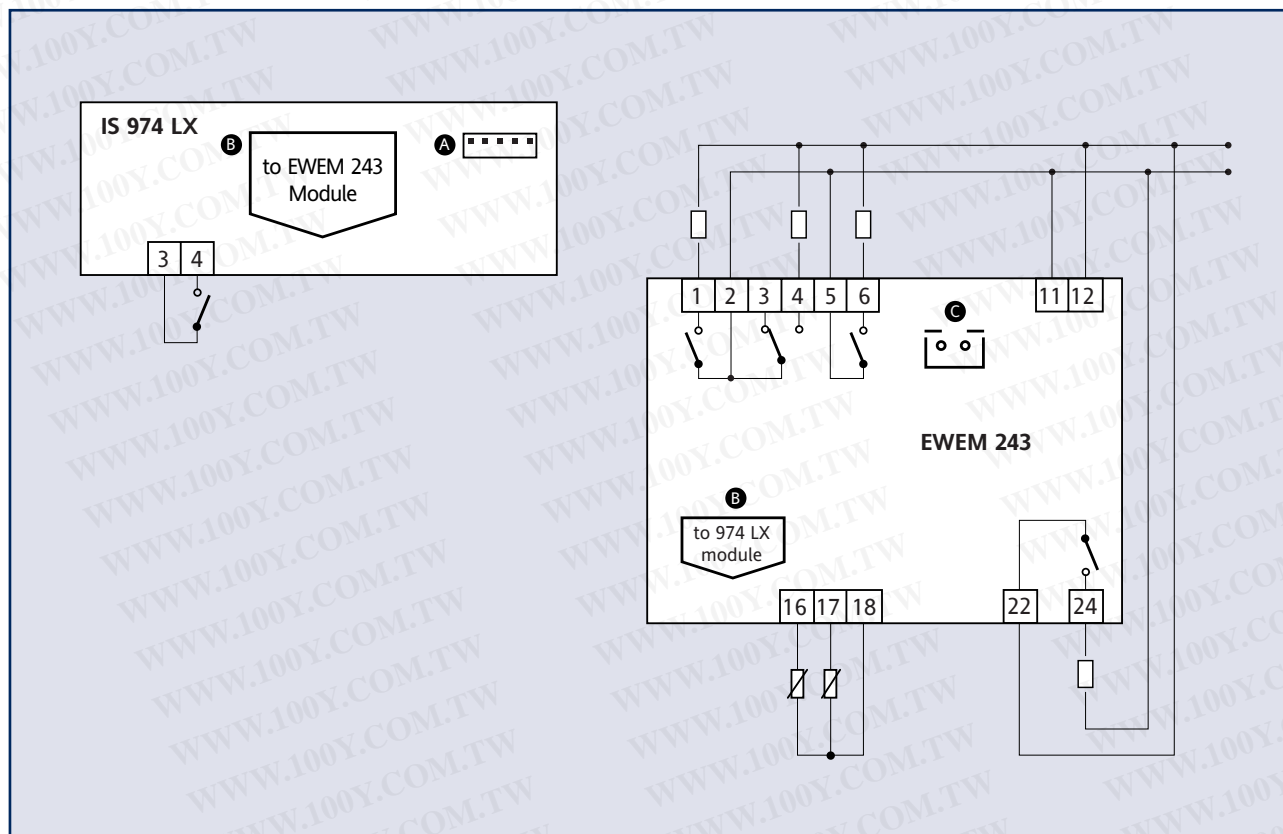
Analogue inputs: two inputs PTC or NTC (set by parameter accessible from the display on the IS main module).

Digital outputs: 1 output on SPST relay for 15(12)A 250V~, 1 output on SPDT relay 10(7)A 250V~ and 2 outputs on SPST relay 8(3)A 250V~, which can be configured.

Power supply: 230 V~ ±10%, 50/60 Hz.

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## Electrical Diagram



## Electrical Diagram Description

### IS 974 LX

- 3-4 Digital input
- A TTL serial input for Copy Card and connection to Televis system
- B IS-EWEM Connection

### EWEM 243

- 1-2 Relay output 4 N.O.
- 2-3 Relay output 3 N.O.
- 2-4 Relay output 3 N.C.
- 5-6 Relay output 2 N.O.
- 11-12 Power supply
- 16-18 Input for PTC or NTC probe
- 17-18 Input for PTC or NTC probe
- 22-24 Relay output 1 N.O.
- B IS-EWEM Connection
- C Serial input RS485