

IC 974, 974 LX

two-stage temperature controller with digifrost functions



Description

IC 974

IC974 controllers have two analogue inputs for NTC temperature probes (the PTC input can be selected with a parameter) and four digital relay outputs, free from voltage, for the management of heating and cooling functions inside the cell, for defrost functions and for the control the evaporator fans.

The defrost cycle can be timed or controlled by the evaporator probe using the cycle end temperature.

The values measured by the probes are displayed with three and a half digits and a minus sign. The decimal point can be programmed with a parameter. The buzzer is optional. All models have TTL connections that enable the controllers to be used with Copy Card, the quick programming accessory.

IC 974 LX

LX models can also be connected to TelevisSystem. The input of this model can also be used to select the operating mode (manual changeover).

All models have a 12 V power supply.

Probe	Display range (°C)
NTC	-50...110,0
PTC	-55...150,0

Relay output	Rating (amp)	Power (hp)
Out A	8 (3)	1/2
Out B	8 (3)	1/2
Out C	8 (3)	1/2
Out D	5 (3)	1/4

Technical Data

Front panel protection: IP65.

Casing: plastic, PC+ABS UL94 V-0, polycarbonate glass, thermoplastic resin keys.

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

Mounting: panel-mounting, with 71x29 mm (+0,2/-0,1 mm) drilling template.

Operating temperature: -5...55°C.

Storage temperature: -30...85°C.

Operating and storage humidity: 10...90 % RH (non condensing).

Display: 3 digits and a half + sign.

Analogue input: one PTC or NTC input (selectable with a parameter).

Digital input: 1 free from voltage digital input, selectable with a parameter.

Serial: TTL for Copy Card and TelevisSystem.

Digital output: 4 relay outputs (see table).

See the label on the instrument for information on the capacity of relays.

Buzzer output: only for models with this feature.

Measuring range: -55 a 140°C.

Accuracy: above 0.5% of bottom scale + 1 digit.

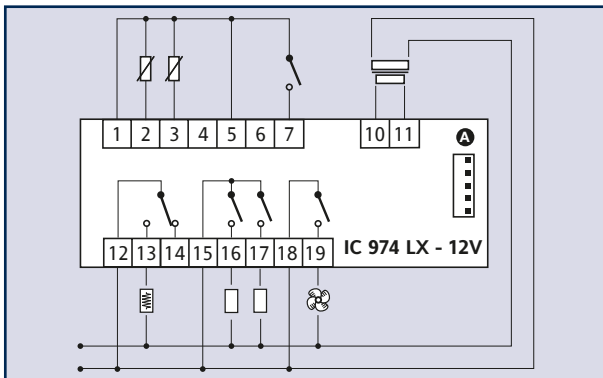
Resolution: 0.1°C (0.1°F) (selectable with a parameter).

Consumption:

- 230V model: 3 VA max.
- 12/24V model: 1,5 VA max.

Power supply: 12/24 V~/± ±10% or 230V~ ±10% 50/60 Hz.

Wiring Diagram



Description of Wiring Diagram

- 1 - 2 Input probe 1 (temperature control)
- 1 - 3 Input probe 2 (evaporator)
- 5 - 7 Digital input 1
- 10 - 11 12V~ power supply
- 12 - 13 13 Relay A N.O.
- 12 - 14 14 Relay A N.C.
- 15 - 16 16 Relay B N.O.
- 15 - 17 17 Relay C N.O.
- 18 - 19 19 Relay D N.O.
- A A TTL input for Copy Card and Televis

