

RTN400

Controllers for plug-in and ducted cabinets with thermostatic valve control



- Energy saving: optimised defrosting control
- Compact: direct control of loads of up to 2HP
- Advanced compressor protection
- Easy to install and configure
- LAN plug-n-play controller connection in an island



DESCRIPTION

RTN400 controllers are compact and stand out for the high-performance and high flexibility they offer through energy-saving algorithms and the direct control of fans and compressors.

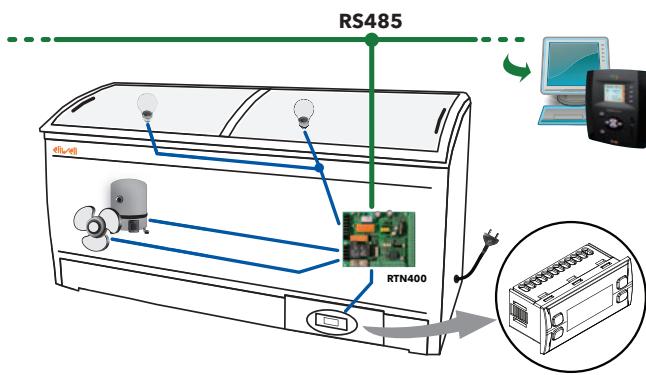
The main features of **RTN400** controllers are:

- relay of up to **2HP** for direct control of loads.
- single or dual compressor control.
- defrost with advanced electrical heaters.
- evaporator fan control in Night&Day mode.
- fixed duty-cycle frame heater control.
- clock for managing defrosts, keeps time for over 3 years.
- reduced maintenance thanks to the protection of the compressor/fans against voltage fluctuations.
- rapid synchronisation of ducted cabinets and island cabinets with **Link²** plug-n-play.
- monitoring gateway (needs only one controller connected to the RS485 per island).
- disconnectable terminals and customised quick connections for OEMs.
- pre-programmed, easy-to-select configurations.
- Device Manager configuration tool.

RTN400 controllers can be interfaced with **KDEPlus** and **KDWPlus** keypads and with the **ECPlus** display module.



RTN400: PLUG-IN cabinet with thermostatic control

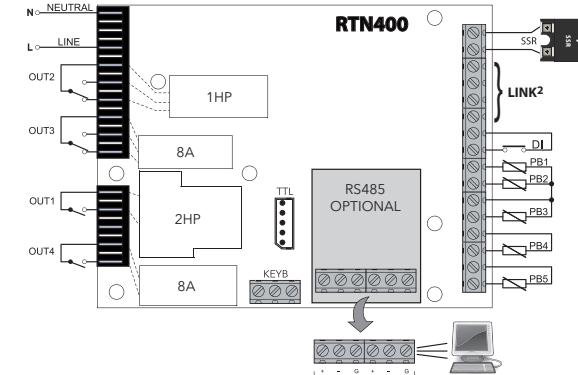


TECHNICAL SPECIFICATIONS

Dimensions:	121x92 mm
Mounting:	Open card with plastic spacers
Power supply:	SMPS 100-240V~ ±10% 50/60Hz
Inputs:	<ul style="list-style-type: none"> • 5 NTC/PTC/PT1000/D.I. inputs • 1 no-voltage input
Outputs	1 x Open Collector (12V _{dc} - 20mA) output
Relays:	<ul style="list-style-type: none"> • 1 x SPST 2HP - 250V~ relay • 1 x SPDT 16A - 250V~ relay • 1 x SPDT 8A - 250V~ relay • 1 x SPST 8A - 250V~ relay
Connections:	<ul style="list-style-type: none"> • 1 voltage serial for keypad (KDEPlus, KDWPlus, ECPlus) • 1 voltage serial for LAN • 1 for Modbus connection to TelevisSystem supervisor or third parties (RS485 with optional module)
Programming	1 TTL for connection to: <ul style="list-style-type: none"> - Eliwell Unicard USB - Copycard - DMI interface for DeviceManager
Parameters:	
Connectors:	fast-on and screw connectors

* For other configurations, please contact the Eliwell sales department (fast-on and disconnectable terminals, etc.).

RTN400: Connection Diagram



ACCESSORIES

	RTN533P1M6H00	RTN400 5P/O/C/Y MC
	KDE400E004000	KDEPlus 32x74 AMB SCREW/JST SP
	KDW6004004080	KDEPlus 32x74 AMB SCREW/JST SP
	EH000050V4000	KDEPlus 32x74 AMB SCREW/JST SP
	KP00Q1SO	RS485 BusAdapter W/MKSDN SP

	SN8DAE11502C0	NTC 1.5m IP 68 6x20 -50+110 °C
	SN8DAE13002C0	NTC 3.0m IP68 6x20 -50...+110 °C
	SN9DAE11502C6	PT1000 1.5m IP68 6x20 -50...+110 °C
	SN9DAE13002C6	PT1000 3.0mt IP68 6x20 -50...+110 °C
	SN7DAE11502C0	PTC 1.5m IP68 6x20 -50...+110 °C
	SN7DAE13002C0	PTC 3.0m IP68 6x20 -50...+110 °C

	CCA0BHT00U00	UNICARD USB/TTL
	COLV000016200	USB-A/A 2 MT EXTENSION LEAD
	BT111120	USB MAINS POWER SUPPLY

ELIWELL CONTROLS srl

Via dell'Industria, 15
Z.I. Paludi
32010 Pieve d'Alpago (BL)
- ITALY -

Telephone: +39 0437 986 111
Fax +39 0437 989 066
www.eliwell.com

Sales:

+39 0437 986 100 (Italy)
+39 0437 986 200 (other countries)
saleseliwell@invensys.com

Technical Support:

+39 0437 986 300
techsuppeliwell@invensys.com



ISO 9001

