

DIN NANO 4CK

The DIN NANO 4CK is a 4 relays electronic regulator DIN rail designed to control refrigerated counters, display windows and static or ventilated refrigeration units with off-cycle or electrical defrosting in real time (RTC). It is fitted with three analogue inputs for NTC temperature probes, one of which is configurable as a digital input, an additional digital input, four relays for the compressor control, fans, defrosting function and alarm and buzzer. As option the connection to an echo temperature repetition.



APPLICATIONS

- Control of refrigerated counters, display windows and refrigeration units.
- Control of two evaporators with two temperature probes of end defrost.

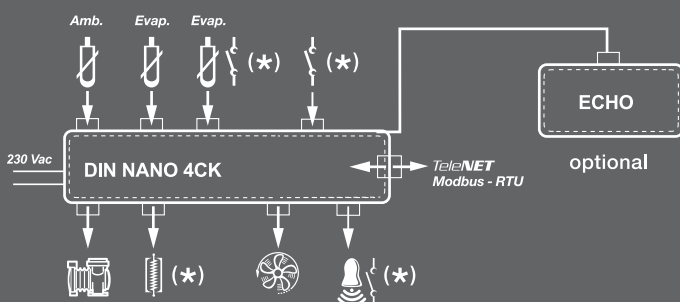
MAIN CHARACTERISTICS

- Can be configured for hot, cold or neutral zone applications.
- Can be configured for managing day / night (automatic modification of the setpoint for energy saving) activated by time mode (real time clock) or by means of the digital input.
- Can be configured to manage two evaporators with dual temperature sensor for defrost termination.

- Relay managing compressor and fans of evaporator (2 non-configurable relays) and defrosting resistances, alarm, pump down start, room light and compressor output (2 configurable relays).
- Defrosting activation in real-time, up to 6 starts in 24h.
- Defrosting can be configured for off-cycle, heating element or cycle inversion and frequency and duration can be set. End-of-defrosting can be based on time or temperature.
- Key operated manual START/STOP defrosting.
- Key operated ON/OFF.
- Cold room light ON/OFF switch with key or by means of door switch (if defrost output is configured like cold room light).
- A temperature repeater echo display is available as an option.
- 3-figure LED display sign, decimal point and plant status icons. Internal buzzer for acoustic signals.
- PEGO programming philosophy guaranteeing immediate start-up.
- RS485 serial connection with Modbus-RTU or Telenet protocol.
- Power supply 230 V AC.
- HACCP function with memory and visualization of the last alarm.

CONNECTION DIAGRAM

(*) = Configurable function





DIN NANO 4CK



ECHO



TECHNICAL CHARACTERISTICS	DIN NANO 4CK
DIMENSIONS	DIN NANO 4CK: 105 x 121,5 x 71 mm ECHO: 93 x 37 x 23,1 mm
WEIGHT	0,5 kg
PROTECTION RATING (DISPLAY ECHO)	IP65 with front board installation
POWER SUPPLY	230 V AC $\pm 10\%$ 50-60 Hz
ABSORBED POWER	5 VA max
WORKING TEMPERATURE	-5 \div +50 °C
STORAGE TEMPERATURE	-10 \div +70 °C
RELATIVE AMBIENT HUMIDITY	< 90% RH
DISPLAY	3-Digit with sign, decimal point and LED status indicators
RESOLUTION	0,1 °C.
PROBE PRECISION (electronic)	$\pm 0,5$ °C
READING RANGE	- 45 \div 99 °C
CONNECTION	Screw removable clamps
SOFTWARE CLASS	A / parameters saved on non-volatile memory (EEPROM)
CLOCK (RTC)	PRESENT
INPUTS	
ANALOGUE	2 inputs for NTC probes (10 k Ω 1% a 25 °C)
DIGITAL	1 input (free voltage contact)
CONFIGURABLE	1 input for NTC probes (10 k Ω 1% at 25 °C) or digital input (free voltage contact)
OUTPUTS	
COMPRESSOR RELAY	(DO1) N.O. 16(6)A / 250V~
HEATINGS ELEMENTS RELAY	(DO2) N.O. 16(6)A / 250V~
FAN RELAY	(DO3) N.O. 16(6)A / 250V~
ALARM/AUX RELAY	(DO4) N.O. 8(3)A / 250V~
BUZZER	PRESENT
SUPERVISION SYSTEM	TELENET / MODBUS-RTU
ACCESSORIES	
ACCESSORIES AVAILABLE	NANO BOX NANO ADAPTER

