

NANO 04 VD

A LINE OF POWER AND CONTROL BOARDS FOR REFRIGERATION SYSTEM

A line of power and control boards for refrigeration systems with three-phase compressors up to 2,5 HP that provide complete cold room management. You can control the room light and the stand-by system using the buttons on the thermostat. Integrated PEGO thermo-regulator controls compressor, ventilation, defrosting and light. The unit also controls the door switch, which automatically turns on the room light, and compressor and fan shutdown.

Applications

- Complete control of three-phase static or ventilated refrigeration systems up to 2,5 HP, with electric or off-cycle defrost.

Main characteristic

- Designed to provide an immediate start-up and easy maintenance.
- Direct control of compressor, condenser fans, compressor oil element, defrost elements, evaporator fans, solenoid valve, room light and all standard-compliant electrical safeguards.
- Compact unit with self-extinguishing ABS housing panel and IP55 protection rating plus circuit breaker on front of panel.
- Integrated PEGO thermo-regulator (Expert Nano 4CK).
- System status indicated by display.
- Key operated ON/OFF.
- Cold room light ON/OFF switch with key or by means of door switch.
- Key operated manual START/STOP defrosting.
- Clock for programmed defrost (RTC).
- Configurable multifunction output, alternative to the light output.
- RS485 serial connection with Modbus-RTU or Telenet protocol.



TECHNICAL CHARACTERISTICS

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Box dimension	210x260x145 mm
Weight	4 Kg
Protection rating	IP 55
Power supply (3PH+N+E)	400 V AC \pm 10% 50/60 Hz
Load type	Three-phase
Working temperature	-5 \div +50°C
Storage temperature	-10 \div +70°C

Relative ambient humidity	< 90% Rh
Main switch	16 A
Overload protection	Thermal relay
General protection	Fuses
Control	PEGO Thermoregulator (Expert Nano 4CK)
Defrosting	Electrical
Status indicators	Display
Alarm signals	Display + Buzzer
Clock (RTC)	PRESENT

INPUTS	
Ambient probe	NTC 10 KΩ
Evaporator probe	NTC 10 KΩ
Door switch	PRESENT
High/low pressure switch	PRESENT
KRIWAN® connection	PRESENT

OUTPUTS	
Compressor	1800 W (0,5÷2,5 HP)
Condenser fans output 1	800 W (1 PH)
Evaporator fans	250 W (1 PH)
Defrosting heaters	1200 W (1 PH)
Room light	PRESENT
Solenoid valve	PRESENT
Compressor oil heater	PRESENT
Supervision system	TELENET / MODBUS-RTU

DIMENSION



CONNECTION SCHEME

