TECHNOLOGY AND PERFORMANCE FOR FULL CONTROL SYSTEMS

Control panel for the complete management of refrigerated cells with single-phase compressor up to 2 HP with Datalogger function and integrated connectivity.
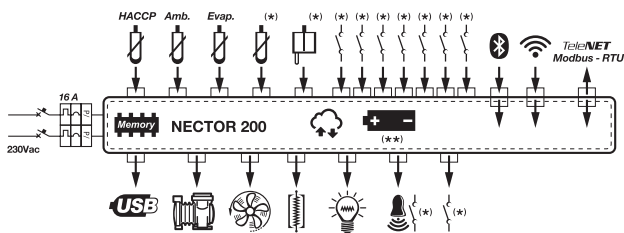
MAIN FEATURES

- Direct management of the compressor, defrost heaters, evaporator fans, cabinet light.
- Datalogger function with recording up to 2 years of ambient temperature and related alarms. Instrument designation: EN 12830, S, A, 1, measuring range: - 45 ° C + 99 ° C.
- Humidification function with dedicated 4 - 20 mA humidity probe (supplied separately).
- Condenser fan speed management with 0-10 V analogue output and dedicated pressure probe.
- Evaporator fan speed management with configurable 0-10V analogue output.
- Management of defrosting by pause, by resistance, by hot gas or by thermostat resistance.
- Possibility of real time clock defrosting.
- Direct management of the solenoid for hot gas defrosting.
- Double evaporator management with double end defrost probe.
- Emergency operation (in case of faulty ambient probe).
- Pump-down operation.
- Cold / hot mode configurable.
- Energy saving (day / night setpoint management, intelligent defrosts)
- Instant recording function of alarm events and digital inputs.
- Data download on external USB memory.

- Software update function via USB.
- Parameter import / export function via USB.
- Backup battery that keeps the real-time recordings of temperature and humidity active in the event of a power failure (optional).
- Control electronics with large display and easy-to-use TOUCH keyboard.
- Ability to alternately view the ambient temperature and humidity on the display
- Integrated differential magnetothermic for the protection and sectioning of the refrigeration unit.
- Wi-Fi, Ethernet and Bluetooth (BLE) connectivity.
- Bluetooth functions: Complete remote control of the instrument, configuration of connectivity settings, display of daily history and system status.
- Cloud functions (function can be activated by subscription): real-time system status display; display of parameters and daily history; receiving alarm notifications in real time.
- Integrated local webserver.
- 7 configurable digital inputs (in 16 modes).
- 2 configurable digital outputs (in 11 modes).
- RS485 for connection to the TeleNET or ModBUS supervision network
- TeleNET program downloadable free of charge from the website www.pego.it for archiving and consulting the data downloaded with the USB memory from NECTOR panels.

Code	NECTOR200D75
Differential magnetothermic (*)	X
7.5 KW defrost mini contactor (**)	X
Backup battery	O
Light differential magnetothermic	-
Energy consumption measurement module	-

X Present   O Optional   – Not available

NECTOR

TECHNICAL FEATURES

DIMENSIONS	300 X 200 X 100 mm
WEIGHT	0,7 Kg
DEGREE OF PROTECTION BOX	IP65
BOX MATERIAL	SELF-EXTINGUISHING PC-ABS
TYPE OF INSULATION	CLASS II

WEATHER CONDITIONS

WORKING TEMPERATURE	-5 +40 °C
STORAGE TEMPERATURE	-10 +70 °C
RELATIVE HUMIDITY	Less than 90 RH% (Non condensing)

ELECTRICAL FEATURES

SUPPLY VOLTAGE	85 – 260 Vac (± 10%) Single phase
POWER FREQUENCY	50 / 60 Hz
MAX ABSORBED POWER	~10 VA
BATTERY (OPTIONAL)	12 V, NI-MH 1300 mAh, autonomy 40h
GENERAL ELECTRICAL PROTECTION (depending on the model)	16A BIPOLAR DIFFERENTIAL MAGNETOTHERMIC SWITCH, CURVE C, Id = 300mA

INPUT FEATURES

TYPE OF PROBES THAT CAN BE CONNECTED	4 NTC 10KΩ TEMPERATURE PROBES 1 4-20 mA probe configurable as 0-100RH% humidity or pressure
RESOLUTION	TEMPERATURE: 0.1 ° C HUMIDITY / PRESSURE: 1 RH% / 0.1 Bar
MEASURING RANGE	TEMPERATURE: -45 +99 ° C HUMIDITY / PRESSURE: 0T100 RH% / 0.1 Bar
CONFIGURABLE DIGITAL INPUTS	7

DESIGNATION

NORMATIVE REFERENCE	CE + EN 12830
ADEQUACY	S (Storage)
TYPE OF CLIMATE ENVIRONMENT	A
ACCURACY CLASS	1

OUTPUT FEATURES (VOLTAGE FREE CONTACTS)

COMPRESSOR	1500 W (AC3)
RESISTANCES	3000 W (AC1) (** depending on model)
FANS	500 W (AC3)
COLD ROOM LIGHTING	800 W (AC1) or 100W for LED lights
CONFIGURABLE OUTPUT 1	100 W (AC1)
CONFIGURABLE OUTPUT 2	100 W (AC1)
ANALOG OUTPUT	0 – 10 V

CONNECTIVITY

SERIAL RS485	MODBUS-RTU / TELENET
BLUETOOTH	BLE LOW ENERGY
WIFI	802.11 B/G/N (2.4 GHZ) UP TO 150 Mbps
ETHERNET	10/100 Mbps