

PLUSR200 EXPERT – DATALOGGER

Control board for complete control of cold rooms with single-phase compressor up to 2 HP and Datalogger function. A large backlit LCD allows for simultaneous display of ambient temperature, evaporator temperature, calendar and all other refrigeration system information. The temperature recorder can record (for up to 1 year) ambient temperature and relative alarms through an electronic circuit equipped with autonomous temperature sensor (as per EN 12830). Moreover, defrosts can be carried out in real time clock mode and it is possible to connect up to the TeleNET supervision system or Modbus-RTU standard protocol.



APPLICATIONS

- Complete control of single-phase static or ventilated systems up to 2 HP , off-cycle or electrical defrost, direct or pump-down mode compressor stop together with Datalogger function.
- Control of single-phase evaporating unit only with solenoid valve enabling or remote motor condenser enabling, together with Datalogger function.

OPTIONS

- Module for communication with printer Custom MY Printer A or smartphone (Android).
- Battery backup up to 40 hours.

MAIN CHARACTERISTICS

- Direct control of compressor, defrost heaters, evaporator fans, room light with 230 V AC contacts directly connectable to various devices.
- Control electronics with large backlit LCD and user-friendly keypad.
- Simultaneous display on LCD of ambient temperature, evaporator temperature, calendar and system status.
- Recording of ambient temperature and relative alarms (up to 1 year).
- USB slot built into controller for data downloads.
- Software updating from USB.
- Defrosts can be carried out in real time clock mode.
- RS485 for connection to TeleNET industrial supervision network or Modbus-RTU standard protocol.
- Safety and protection guaranteed and certified thanks to incorporated differential magnothermic circuit breaker, which cuts the power supply.
- Easy installation and opening thanks to new hinged cover.
- Auxiliary relay with parameter-configurable activation.
- Registration probe with calibration certificate included.
- **TeleNET** software to download data on personal computer (provided free of charge with product).

CONNECTION DIAGRAM

(*) = Configurable function

(* *) = Optional





TECHNICAL CHARACTERISTICS	PLUSR 200 EXPERT
DIMENSIONS	263 x 180 x 96 mm
WEIGHT	1 kg
POWER SUPPLY	
VOLTAGE	230 V AC $\pm 10\%$ 50-60 HZ
MAX ABSORBED POWER	~ 7 VA
AMBIENT CONDITIONS	
WORKING TEMPERATURE	0 \div +50 °C
STORAGE TEMPERATURE	-20 \div +60 °C
RELATIVE HUMIDITY	< 90% RH
GENERAL CHARACTERISTICS	
CONNECTABLE SENSOR TYPES	NTC 10 k Ω
RESOLUTION	0,1 °C
RANGE OF READING	-45 \div +99 °C
RECORDING CHARACTERISTICS	
MAXIMUM NUMBER OF READINGS WITHOUT OVERWRITE	1 YEAR (CYCLIC MEMORY)
OUTPUT CHARACTERISTICS - MAX APPLICABLE LOAD (230 V AC)	
COMPRESSOR	1500 W (AC3) FREE VOLTAGE CONTACT
DEFROST	3000 W (AC1) FREE VOLTAGE CONTACT
FANS	500 W (AC3) FREE VOLTAGE CONTACT
ROOM LIGHT	800 W (AC1) FREE VOLTAGE CONTACT
CONFIGURABLE ALARM CONTACT (VOLTAGE-FREE CONTACT)	PRESENT
SUPERVISION SYSTEM	TELENET/MODBUS-RTU
GENERAL ELECTRIC PROTECTION	
BIPOLAR DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER	OPTIONAL, 16 A ID = 300 mA SWITCHING POWER 4.5 kA ID = 30 mA (ON REQUEST)
INSULATION AND MECHANICAL CHARACTERISTICS	
BOX PROTECTION RATING	IP65
BOX MATERIAL	SELF-EXTINGUISHING ABS
TYPE OF INSULATION	CLASS II
DESIGNATION	
STANDARD REFERENCE	EN 12830
SUITABILITY	S (STORAGE)
LOCATION	A
ACCURACY CLASS	1
OPTIONS	
BATTERY BACKUP	OPTIONAL
COMMUNICATION WITH PRINTER/SMARTPHONE (ANDROID)	OPTIONAL