

PLUSR300 EXPERT VD DATALOGGER

PLUSR300 Expert VD 4 | PLUSR300 Expert VD 7

Control board for complete control of cold rooms with three-phase compressor up to 7,5 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 is independent from the controller used to manage the refrigeration system and can record (for up to 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 or Modbus-RTU supervision system. Magnetothermic protection and motor circuit breaker for the compressor accessible from the front panel linked to an innovative form makes it a perfect and functional choice.



APPLICATIONS

- Control of three-phase refrigeration plant up to 7.5 HP, static or ventilated, with off-cycle or electrical defrosting.

OPTIONS

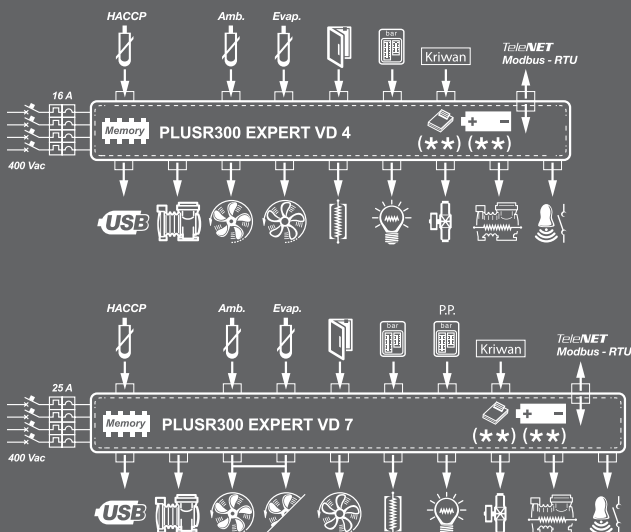
- Module for communication with printer Custom MY Printer A or smartphone (Android).
- Battery backup (Datalogger) up to 40 hours.
- RS version with thermostat door heater and discharge heater.

MAIN CHARACTERISTICS

- Direct control of the compressor, condenser fans, compressor oil heater, defrosting heaters, evaporator fans, solenoid valve, room light and all standard-compliant electrical safeguards.
- General magnetothermic circuit breaker accessible from the front panel, which cuts the general power supply.
- Adjustable motor circuit breaker for compressor protection accessible from the front panel.
- Easy wiring on the internal terminal block.
- Selection of functioning mode for the compressor (pump-down / thermostat).
- Auxiliary relay with activation configurable by parameter.
- Transparent cover for access to magnetothermic circuit breaker, all with Ip65 protection rating.
- 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 Modbus-RTU or TeleNET industrial supervision network.
- TeleNET software to download data on personal computer (provided free of charge with product).

CONNECTION DIAGRAMS

(**) = Optional





TECHNICAL CHARACTERISTICS	PLUSR 300 EXPERT VD 4	PLUSR 300 EXPERT VD 7
BOX DIMENSIONS	400 x 300 x 135 mm	400 x 300 x 135 mm
WEIGHT	9 kg	10 kg
PROTECTION RATING	IP65	IP65
POWER SUPPLY	400 V AC ±10% 50-60 Hz	400 V AC ±10% 50-60 Hz
LOAD TYPE	THREE-PHASE	THREE-PHASE
WORKING TEMPERATURE	-5 ÷ +40 °C	-5 ÷ +40 °C
STORAGE TEMPERATURE	-25 ÷ +55 °C	-25 ÷ +55 °C
RELATIVE AMBIENT HUMIDITY	30% - 90% RH W/OUT CONDENSATE	30% - 90% RH W/OUT CONDENSATE
MAIN SWITCH / GENERAL PROTECTION	4 POLES MAGNETOTHERMIC 16 A	4 POLES MAGNETOTHERMIC 25 A
COMPRESSOR PROTECTION	MOTOR CIRCUIT BREAKER	MOTOR CIRCUIT BREAKER
CONTROL	PEGO	PEGO
DEFROSTING	ELECTRICAL	ELECTRICAL
STATUS INDICATORS	DISPLAY LCD WITH BACKLIGHT	DISPLAY LCD WITH BACKLIGHT
ALARM SIGNALS	DISPLAY LCD + BUZZER	DISPLAY LCD + BUZZER
INPUTS		
AMBIENT PROBE	NTC 10 kΩ	NTC 10 kΩ
EVAPORATOR PROBE	NTC 10 kΩ	NTC 10 kΩ
DATALOGGER PROBE	NTC 10 kΩ	NTC 10 kΩ
DOOR SWITCH	PRESENT	PRESENT
HIGH/LOW PRESSURE SWITCH	PRESENT	PRESENT
KRIWAN® CONNECTION	PRESENT	PRESENT
COMPRESSOR FUNCTIONING MODE SELECTION	PUMP-DOWN / THERMOSTAT	PUMP-DOWN / THERMOSTAT
OUTPUTS		
COMPRESSOR	370W ÷ 3000W (0,5-4 HP)	3000 W ÷ 5500 W (4 ÷ 7,5 HP)
CONDENSER FANS OUTPUT 1	800 W (1PH)	800 W (1PH) (1PH)
CONDENSER FANS OUTPUT 2 (SEPARATED)		TOTAL (1PH)
EVAPORATOR FANS	500 W (1PH)	2000 W (3PH) OR 1500 W (1PH)
DEFROSTING HEATERS	6000 W (AC1) EQ. RESISTIVE LOAD	9000 W (AC1) EQ. RESISTIVE LOAD
ROOM LIGHT	800 W (AC1) RESISTIVE LOAD	800 W (AC1) RESISTIVE LOAD
SOLENOID VALVE	PRESENT	PRESENT
COMPRESSOR OIL HEATER	PRESENT	PRESENT
ALARM RELAY	PRESENT	PRESENT
SUPERVISION SYSTEM	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU
DATALOGGER		
DATALOGGER	INDEPENDENT PROBE	INDEPENDENT PROBE
MAX. NUMBER OF READINGS WITHOUT OVERWRITE	1 YEAR (CYCLIC MEMORY)	1 YEAR (CYCLIC MEMORY)
DESIGNATION		
STANDARD REFERENCE	EN 12830	EN 12830
SUITABILITY	S (STORAGE)	S (STORAGE)
LOCATION	A	A
ACCURACY CLASS	1	1
OPTIONS		
BATTERY BACKUP	OPTIONAL	OPTIONAL
COMMUNICATION WITH PRINTER/SMARTPHONE (ANDROID)	OPTIONAL	OPTIONAL