

# PLUSR300 EXPERT U VD DATALOGGER

PLUSR300 Expert U VD 6 | PLUSR300 Expert U VD 12

A line of power and control panels for refrigeration systems to control only the three-phase evaporating unit where units are served by a central refrigerator or remote condenser unit 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 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 evaporating unit with electrical defrost up to 12 kW.

## OPTIONS

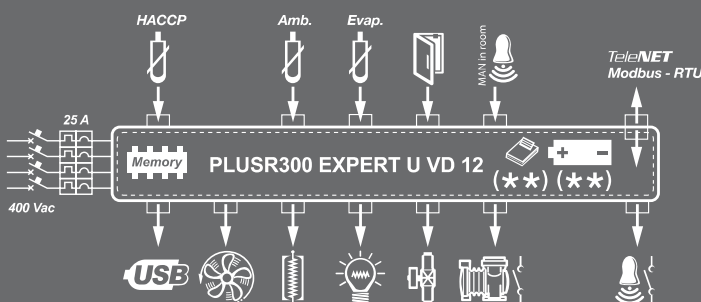
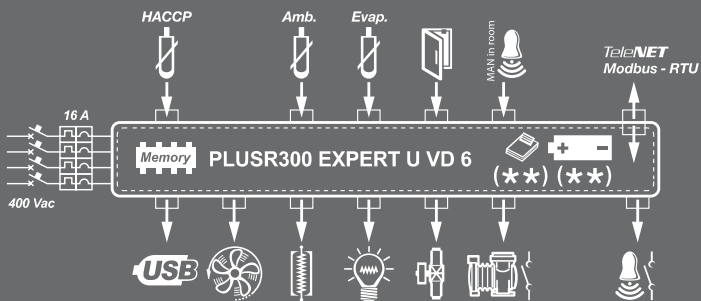
- Module for communication with printer Custom MY Printer A or smartphone (Android).
- Battery backup (Datalogger) up to 40 hours.
- RS version with thermostat door heater and discharge heater.

## MAIN CHARACTERISTICS

- Enable for motor condenser unit, defrosting elements, evaporator fans, solenoid valve, room light and all standard-compliant electrical safeguards.
- Magnetothermic circuit breaker accessible from the front panel, which cuts the general power supply.
- Differential magnetothermic dedicated to room light accessible from the front panel (see the table).
- Easy wiring on the internal terminal block.
- Auxiliary relay with activation configurable by parameter.
- Transparent cover for access to all the protections, 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 TeleNET industrial supervision network or Modbus-RTU standard protocol.
- TeleNET software to download data on personal computer (provided free of charge with product).

## CONNECTION DIAGRAMS

( \* \* ) = Optional





TECHNICAL CHARACTERISTICS	PLUSR 300 EXPERT U VD 6	PLUSR 300 EXPERT U VD 12
BOX DIMENSIONS	400 X 300 X 135 mm	400 X 300 X 135 mm
WEIGHT	9 Kg	10 Kg
PROTECTION RATING	IP 65	IP 65
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
RANGE OF READING	-45 ÷ +99°C	-45 ÷ +99°C
MAIN SWITCH / GENERAL PROTECTION	4 POLES MAGNETOTHERMIC 16A	4 POLES MAGNETOTHERMIC 25A
ROOM LIGHT PROTECTION	DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER (OPTIONAL)	DIFFERENTIAL MAGNETOTHERMIC CIRCUIT BREAKER
CONTROL	PEGO	PEGO
DEFROSTING	ELECTRICAL	ELECTRICAL
STATUS INDICATORS	DISPLAY LCD WITH BACKLIGHT	DISPLAY LCD WITH BACKLIGHT
ALARM SIGNALS	BUZZER + DISPLAY LCD	BUZZER + DISPLAY LCD
<b>INPUTS</b>		
AMBIENT PROBE	NTC 10K Ω	NTC 10K Ω
EVAPORATOR PROBE	NTC 10K Ω	NTC 10K Ω
DATALOGGER PROBE	NTC 10K Ω	NTC 10K Ω
DOOR SWITCH	PRESENT	PRESENT
MAN IN COLD-ROOM ALARM	AVAILABLE	AVAILABLE
<b>OUTPUTS</b>		
EVAPORATOR FANS	550 W (1PH)	2000 W (1PH / 3PH)
DEFROSTING HEATERS	6000 W (AC1) EQ. RESISTIVE LOAD	12000 W (AC1) EQ. RESISTIVE LOAD
ROOM LIGHT	800 W (AC1) RESISTIVE LOAD	1200 W (AC1) RESISTIVE LOAD
SOLENOID VALVE	PRESENT	PRESENT
ENABLE CONDENSING UNIT	PRESENT	PRESENT
CONFIGURABLE ALARM RELAY	PRESENT	PRESENT
DOOR HEATER	PRESENT	PRESENT
SUPERVISION SYSTEM	TELENET / MODBUS-RTU	TELENET / MODBUS-RTU
<b>DATALOGGER</b>		
DATALOGGER	INDIPENDENT PROBE	INDIPENDENT PROBE
MAX. NUMBER OF READINGS WITHOUT OVERWRITE	1 YEAR (CYCLIC MEMORY)	1 YEAR (CYCLIC MEMORY)
<b>DESIGNATION</b>		
STANDARD REFERENCE	EN 12830	EN 12830
SUITABILITY	S (STORAGE)	S (STORAGE)
LOCATION	A	A
ACCURACY CLASS	1	1
<b>OPTIONS</b>		
BATTERY BACKUP	OPTIONAL	OPTIONAL
COMMUNICATION WITH PRINTER/SMARTPHONE (ANDROID)	OPTIONAL	OPTIONAL