

PLE500-8AD

PL500 expansion module Modulo espansione per PL500



3 Technical Data3.1 General Features

Operating temperature	Temperature: 0-45°C - Humidity 3595 RH%	
Container	DIN43880, 18 x 90 x 64 mm	
Box	Box and front panel: PC UL94V0 self-extinguishing	
Sealing	IP20 (box and terminals)	
Weight	Approx. 30 g	

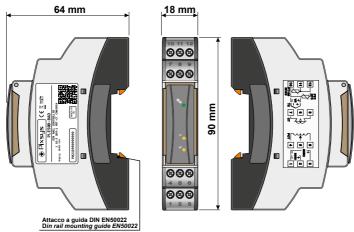
3.2 Hardware Features

Power-supply	12/24 VDC ±15%	Consumption: 3 VA Max.
Analogue input		Tolleranza (25 °C)
	1: Al1 Configurable via software.	+/-0.3% ±1 digit (su F.s.) per
	Input : Thermocouple type K, S, R, J, T, E,	termocoppia, termoresistenza e V / mA.
	N, B. Automatic compensation of cold	Precisione giunto freddo 0.1 °C/°C
	junction from 050 °C.	
	Thermoresistances: PT100, PT500,	Impedence:
	PT 1000, N1100, PTCTK, NTCTOK (\$ 3435K).	0-10 V : Ri>110 kΩ
	Input V/I: 0-10 V, 0-20 o 4-20 mA, 0-60	0-20 mA : Ri<50 Ω
	mV.	4-20 mA : Ri<50 Ω
	Input Pot: Configurable 1150kΩ	0-60 mV : Ri>500 kΩ
	1: C.T.: 50 mA AC 50/60 Hz	
		C.T.: 4096 points / 100 µs
	2 SSR.	
	Configurable as command or alarm	12/24VDC (Power supply) ±15%/ 50mA
	output.	

3.3 Software features

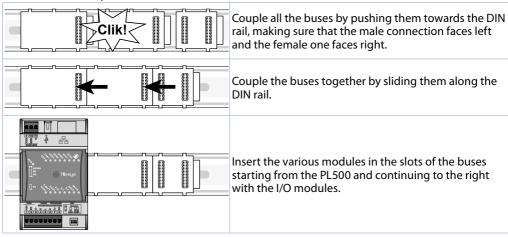
Regulation algorithms	ON-OFF with hysteresis. P, PI, PID, PD with proportional time
Proportional band	0999°C o °F
Integral time	0,0999,9 s (0 excludes)
Derivative time	0,0999,9 s (0 excludes)
Controller functions	Manual or automatic Tuning, selectable alarm, Start/Stop, "expansion" function.

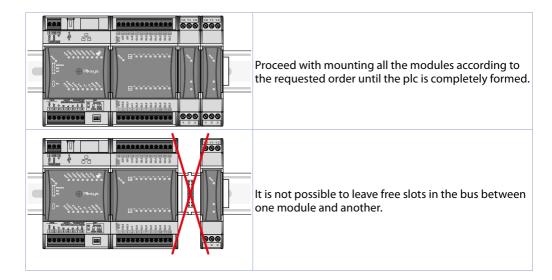
4 Dimensions and Installation



4.1 Mounting sequence of the PL500 and of the PLE500 expansion modules

The PL500 with the relevant I/O modules requires mounting and connection via the specific bus lodged in the hollow of the DIN rail. The I/O modules (series PLE500-xAD) will be automatically numbered at each power-on, assigning the number 1 to the first I/O module connected to the right of the PL500, the number 2 to the following one and so on, always moving towards the right side. The position of the various modules shall thus reflect the sequence set in the LogicLab project in the definition of the PLCEXP network. For the numbering procedure to work correctly, it is not permitted to remove devices from the network by releasing them from their own bus and leaving some empty modules (bus slots) between one module and another. All connection/disconnection operations must be carried out with power off.



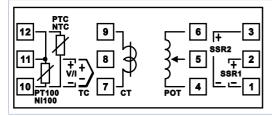


5 Electric connections

This instrument was designed and built in compliance with the Low Voltage Directives 2006/95/CE, 2014/35/EU (LVD) and Electromagnetic compatibility 2004/108/EC and 2014/30/EU (EMC). For installation in industrial environments it is a good rule to follow the precautions below:

- Distinguish the power supply line from the power lines.
- Avoid the proximity with contactor units, electromagnetic contactors, high power motors and use filters in any event.
- Avoid the proximity with power units, particularly with phase control.
- The use of network filters is recommended on the power supply of the machine in which the instrument will be installed, particular in case of 230 VAC power supply.
 - The instrument is devised to be assembled with other machines. Therefore, the EC marking of the instrument does not exempt the manufacturer of the system from the safety and conformity obligations imposed for the machine as a whole.
- Wiring of pins use crimped tube terminals or flexible/rigid copper wire with diameter 0.25 to 1.5 mm2 (min. AWG28, max. AWG16, operating temperature: min. 70°C). Cable stripping lenght 7 to 8 mm.

5.1 Wiring diagram



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