



» ATR121 Controller Double SETPOINT

» Ordering code

Food industry
Ovens/furnaces
Refrigeration
Sterilizers
Environmental chambers
Safety units
Injection moulding
Driers



» Description

Double-setpoint controller 32x74mm, 3 digits display. Input is configurable for thermocouples type J, K, S, R, PT100, PTC 1000 Ohm, NI100, NTC 10K (typically used in the refrigeration industry) and PT500/PT1000 (widely used in air-conditioning), signals 0...1V, 0...10V, 0...20mA, 4...20mA. Potentiometers with full scale up to 6K Ω and 150K Ω may also be read, including function "Latch on" for quick calibration and setting of minimum, maximum and zero by frontal keys (see Application notes).

Two setpoints are available, one for command and one for alarm function, and they can be related to two relay outputs or to SSR output. The main relay of command output is 8A (on models with internal transformer 24 or 115 or 230Vac) or 10A (on model with internal switching 12...24Vac/Vdc). The alarm relay is 5A (alarm modes: treshold, band, deviation; option manual reset of output for Limit controller function). Open/Close logic for motorised valves.

Software features include ON/OFF, PID+Autotuning control and Heating-cooling PID with neutral zone. A single output (1 relay + SSR) version is available with serial communication RS485 and Modbus-RTU / Slave protocol for application with supervisory systems. Sealing IP65 with frontal gasket (optional).

Optional Memory Card to copy all parameters, available also with internal battery therefore not requiring to power up the unit.

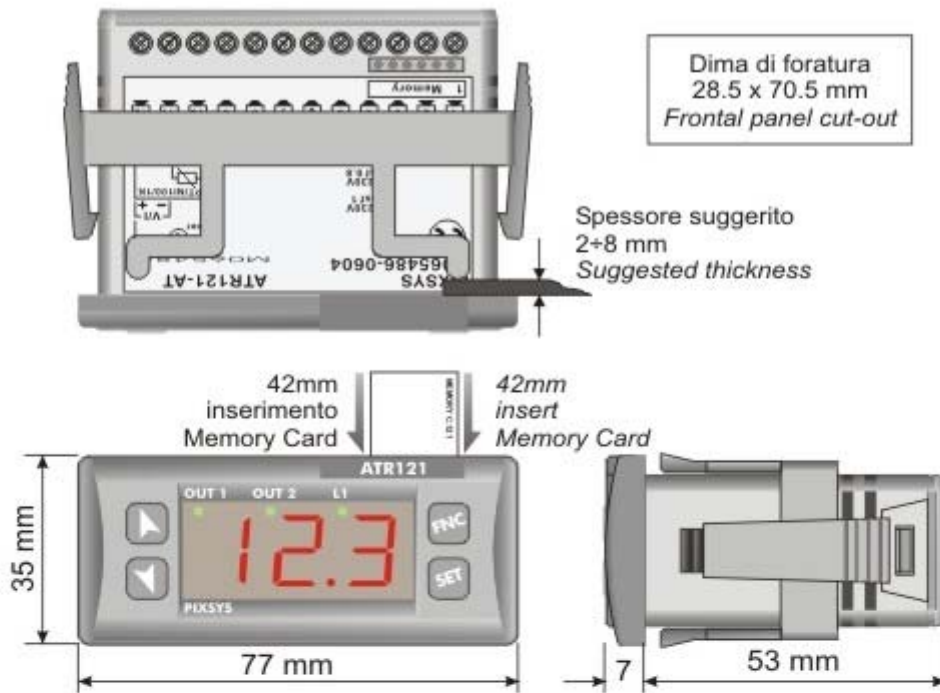
Software application LabSoftView for Windows enables setting and monitoring of parameters on PC. UL-CSA approved.

» Technical data

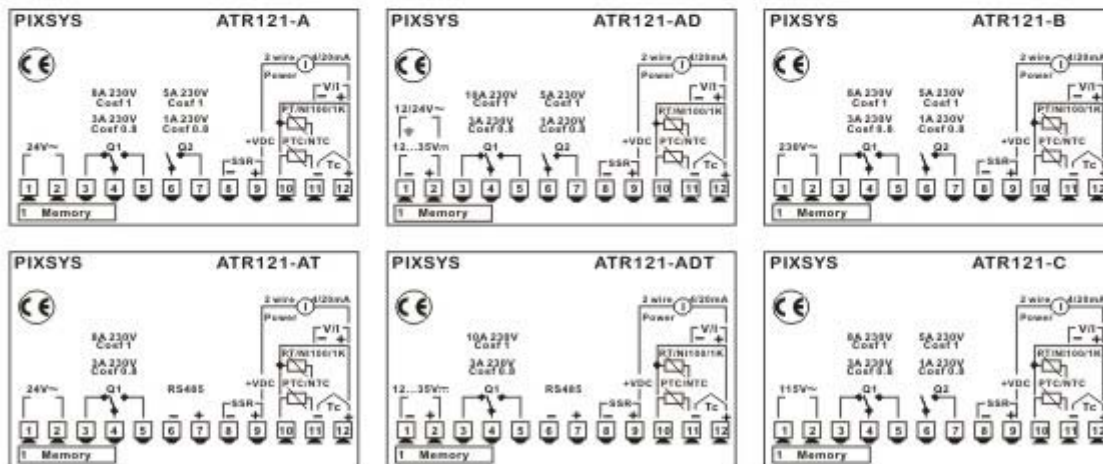
SIZE: 32x74(FRONTAL)x58mm
POWER SUPPLY: 12...24Vac , 24Vac , 115Vac , 230Vac , 12...35 Vdc
POWER CONSUMPTION: 2W
DISPLAY: 3 red Digits, green LEDs, decimal point
OPERATING CONDITIONS: 0...40°C, 35...95rH%
INPUTS: 1 configurable for TC K , R , J , S
PT100 , NI100 , PT500, PT1000 , PTC , NTC
0/4...20mA , 0...10Volt
Potentiometers \leq 6K Ω , \leq 150K Ω
OUTPUTS:
Control relay 10A (version AD)
Control relay 8A (version A-B-C)
Alarm relay 5A (Version AD-A-B-C)
SSR command/Alarm (all versions)
Open/Close logic, time-proportioned
Serial RS485, MODBUS-RTU/Slave protocol (versions ADT, AT)
CONTROL ACTION: ON/OFF, PID Autotuning, Heating/Cooling PID
ACCURACY: 0.5% \pm 1digit for TC/RTD; 0.2% \pm 1digit for mA/V
SAMPLING TIME: 66ms
Selectable software filter on input and visualisation
SEALING: IP54 Frontal (IP65 with gasket), IP30 Box, IP20 Terminal blocks
CONFIGURATION: parameters protected by password
MEMORY CARD with/without battery

» Ordering Code

» Installation



Modello / Model :



MODEL	INPUTS	OUTPUTS	POWER SUPPLY
ATR121-A	Configurabile / Selectable	2 Relays + SSR	24Vac +/-10% 50/60Hz
ATR121-AT		1 Relays + SSR + Serial	12...24Vac +/-10% 50/60Hz 12...35Vdc
ATR121-AD		2 Relays + SSR	
ATR121-ADT		1 Relays + SSR + Serial	
ATR121-B		2 Relays + SSR	230 Vac +/-10% 50/60 Hz
ATR121-C		2 Relays + SSR	115 Vac +/-10% 50/60 Hz

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