



## ATR121 Controller Double setpoint

Controller 32x74mm, Single control loop, 3-digits Display.  
 Distinctive feature is the high configurability, resulting in a limited number of ordering codes.

Universal analogue input, selectable for a wide range of sensors, both for industrial or civil applications. Relay/SSR outputs, programmable as command/alarm/event. Optional RS485-ModbusRTU/Slave.

User-friendly operation, programming tools for quick set-up (MEMORY-CARD, programming and monitoring software LABSOFTVIEW).



## Ordering codes

ATR121-AD	1 Analogue Input + 2 Relays 8 A + 1 SSR 12Vdc / Supp. 12...24Vac/Vdc
ATR121-A	1 Analogue Input + 2 Relays 8 A + 1 SSR 12Vdc / Supp. 24Vac
ATR121-B	1 Analogue Input + 2 Relays 8 A + 1 SSR 12Vdc / Supp. 230Vac
ATR121-C	1 Analogue Input + 2 Relays 8 A + 1 SSR 12Vdc / Supp. 115Vac
ATR121-ADT	1 Analogue Input + 1 Relay 8 A + 1 SSR 12Vdc + RS485 Modbus RTU Slave / Supp. 12...24Vac/Vdc

## Main features

Box	32x74 (front panel) x 53 mm
Power supply	12...24 Vac/Vdc or 24Vac/115Vac/230Vac $\pm$ 15% 50/60 Hz
Consumption	2 W

Display	3 digits, 0,56" red + 3 signaling leds
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: Noryl UL94V1 self-extinguishing; front panel: ABS UL94V0 self-extinguishing
Weight	Approx. 100 g
Sealing	Front panel IP65 (with gasket) , Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card with/without battery, software LABSOFTVIEW

## Inputs

1 configurable	Selection TC, K, J, S, R, PT100,PT500, PT1000, Ni100, PTC1K, NTC10K (B 3435K), 0/4..20 mA, 0..10 V, Potentiometer 1...6/160 Kohm.
Sampling frequency	66ms (frequency 15 Hz)

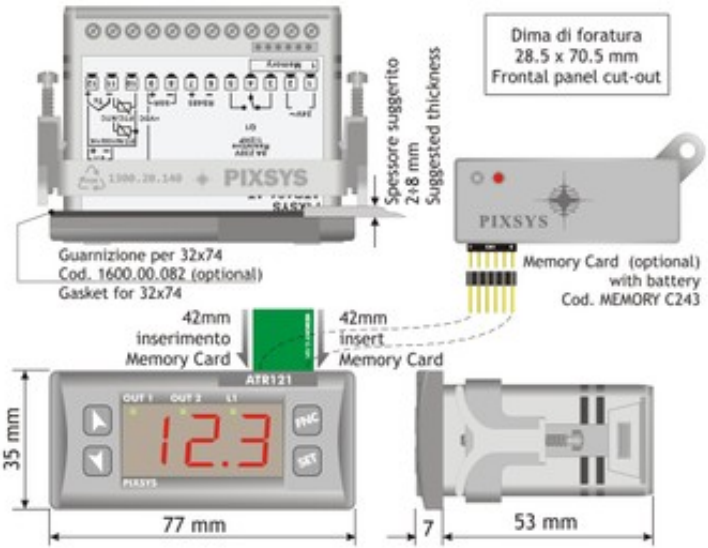
## Outputs

2 Relays	1 Relay 10A/8A - 250 Vac resistive charge + 1 Relay 5A - 250 Vac resistive charge
1 SSR	8 Vdc - 20 mA (codes A/B/C) - 15 Vdc - 30 mA (code AD)
Serial communication	RS485 Modbus RTU - Slave

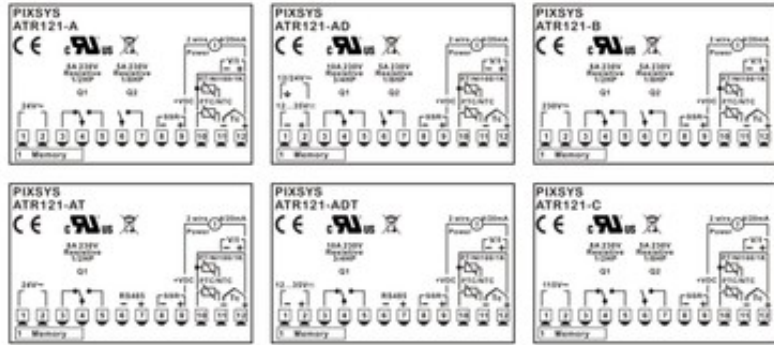
## Software features

Control algorithms	ON - OFF with hysteresis, P., P.I., P.I.D., P.D. time proportioned, Dead band
Tuning	manual or automatic
Operating modes	Visualizer, Single setpoint, Double setpoint (selection by parameter)
Data protection	Lock of control / alarm setpoint - Access to parameters by password
Alarm modes	Absolute / Threshold, band, High / Low deviation. Alarm with optional manual reset.
Double P.I.D.	Heating / Cooling P.I.D.
Open / Close logic	Open / Close logic for motorized valves

# Size and installation



# Wiring plan



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