

ATR121 Overview



PID controller 32x74 mm

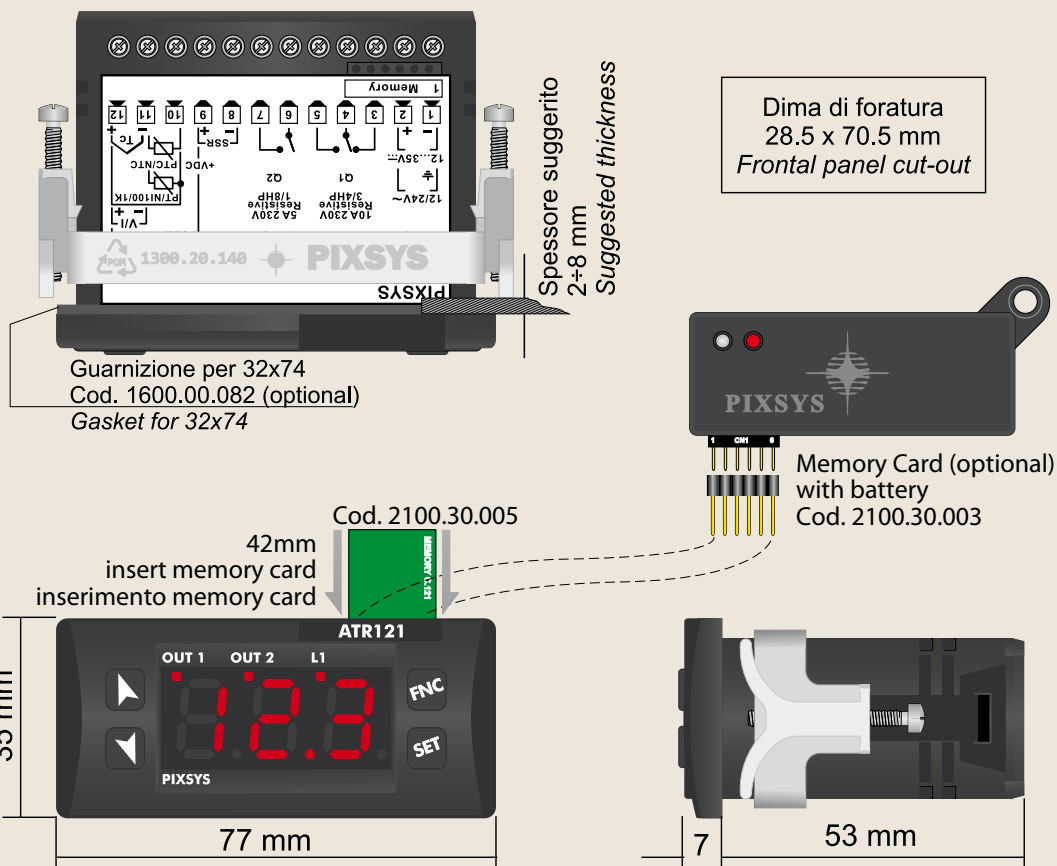
Control and alarm functions up to 2 setpoint
Single analogue input

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Main features

Box	32 x 74 (front panel) x 53 mm
Power supply	12...24 VAC / VDC or 230VAC $\pm 15\%$ 50/60 Hz- (galvanical isolation 2500V)
Power consumption	2,6 VA (code AD) 4,4 VA (code B)
Display	3 digits, 0,56" red + 3 signaling leds
Operating conditions	Temperature 0-45 °C, humidity 35..95 RH%
Material	Box: polycarbonate; front panel: ABS UL94V0 self-extinguishing
Weight	Approx. 100 g
Sealing	Front panel IP54, Box IP30, Terminal blocks IP20
Quick set-up options	Memory Card, software LABSOFTVIEW

Inputs

1 analogue	Res. 16 bit, selectable for TC type K, S, R, J, (automatic compensation of the cold junction o..50 °C, $\pm 0,2\%$ F.S. ± 1 Digit F.S.), thermoresistance PT100, PT500, PT1000, Ni100, PTC1K. NTC10K, (β 3435K), process signals 0..10V (40000 points), 0/4..20mA (30000 points), potentiometer 6K Ω , 150 K Ω (40000 points)
Sampling time	66ms (frequency 15 Hz)

Outputs

2 relays	1 Relay 10A/8A - 250 VAC resistive charge + 1 Relay 5A - 250 VAC resistive charge
1 digital	8 VDC - 20 mA (code B) - 12..35 VDC - 30 mA (code AD)
1 auxiliary	8 VDC - 20 mA (code B) - 12..35 VDC - 30 mA (code AD) for sensor supply

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
Setpoint	2 setpoints

Ordering codes

ATR121-AD	1 Analogue Input + 2 Relays 8 A + 1 SSR 12VDC / Supp. 12..24 VAC/DC
ATR121-B	1 Analogue Input + 2 Relays 8 A + 1 SSR 12VDC / Supp. 230 VAC